U.S. DEPARTMENT OF COMMERCE
National Technical Information Service

PB-259 664

Yellowstone National Park Survey May-August 1970, Includes Soda Butte Survey, May-October 1969

Environmental Protection Agency, Kansas City, Mo Region VII

Dec 70

PB 259 664

316045

YELLOWSTONE NATIONAL PARK SURVEY

May - August 1970
includes
Soda Butte Survey
May-October 1969
Final preliminary

U.S.Environmental Protection Agency
911 Walnut, Rm.711
Kansas City, Missouri
December, 1970

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15. Supplementary Notes
(PC A16/MF A01)

16. Abstracts
The report is a preliminary water quality survey conducted in 1969 and 1970 of the Soda Butte Area. Tables on water quality of the Missouri and Yellowstone River are given.

17. Key Words and Document Analysis. 17a. Descriptors
*Water pollution,
*National parks,

Surveys,
Tables(data),
Concentration(composition),
Biochemical oxygen demand,
Ammonia,
Inorganic nitrates,
Sulfates,
Missouri River,
Yellowstone River,
Missouri,
Montana,
North Dakota.

17b. Identifiers/Open-Ended Terms
*Water quality data,
Yellowstone National Park,
Organic loadings.

17c. COSATI Field/Group 13 B 5 K

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"Final Preliminary" of the

YELLOWSTONE NATIONAL PARK SURVEY

MAY - AUGUST, 1970

Includes

SODA BUTTE SURVEY

MAY - OCTOBER, 1969

Destroy all other copies received previously

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 11/16/70

STATION 1A0906.
MARK R AT HWY. 8. BR STATIONS
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	10. WATER TEMP CENT	20. AIR TEMP CENT	2. VEAMPLOC DEPTH FEET	60. STREAM FLOW CUFT/SEC	300. DO MG/L	400. PH S U	425. LAB PH SU	95. CNDUCTVY AT 25C MICROMHO	70. TURB JKSN JU	410. T ALK CACO3 MG/L
70/ 7/17 1250	16.00	25.00	**********	**********	8.30	7.90	8.00	118.00	0.70	58.00
70/ 7/30 1130	12.00	18.00	**********	**********	10.00	7.90	7.90	117.00	0.60	60.00
ARITHMETIC MEAN	14.00	21.50	0.00	0.00	9.15	7.90	7.95	118.00	0.65	47.00
STD. DEVIATION	2.8284	4.9497	0.0000	0.0000	1.2020	0.0000	0.0505	1.4169	0.0707	4.2427
NO. OF VALUES	2	2	0	0	2	2	2	2	2	2

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/18/70

STATION 1499964.
WARM R AT WM. R. RR STATIONS
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	940. CHLORIDE CL MG/L	945. SULFATE SO4 MG/L	304. BOD 2 DAY MG/L	310. BOD 5 DAY MG/L	610. AMMONIA NH3-N MG/L	625. TOT KJEL N MG/L	630. NO2&NO3 N MG/L	665. PHOS-T P-WET MG/L	70507. PHOS-T ORTHO MG/L-P	915. CALCIUM CA.DISS MG/L
70/ 7/17 1230	5.00	6.20	**********	**********	0.02	0.08	0.02	0.01	0.00+	7.70
70/ 7/30 1130	5.00	5.00	**********	**********	0.00+	0.30	0.04	0.03	0.00+	7.70
ARITHMETIC MEAN	5.00	5.60	0.00	0.00	0.01	0.19	0.03	0.02	0.00	7.70
STD. DEVIATION	0.0027	0.8485	0.0000	0.0000	0.0141	0.1555	0.0141	0.0141	0.0000	0.0085
NO. OF VALUES	2	2	0	0	2	2	2	2	2	2

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 169996.
WARM R AT WHS. R. NR 6YATIONS
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	930. SODIUM NA.DISS MG/L	935. PTASSIUM K.DISS MG/L	950. FLUORIDE F.DISS MG/L	1020. BORON B.DISS UG/L	1040. COPPER CU UG/L	1045. IRON TOTAL UG/L	1055. MANGNESE MN UG/L	1090. ZINC ZN.DISS UG/L	1145. SELENIUM SE.DISS UG/L	9503. RA-226 DISSOLVED PC/L
70/ 7/17 1230	11.00	1.80	1.90 **********		0.00+	160.00	0.00+	0.00+**********	**********	
70/ 7/30 1130	13.00	1.80	2.10 **********		0.00+	0.00+	0.00+	0.00+**********	**********	
ARITHMETIC MEAN	12.00	1.80	2.00	0.00	0.00	80.00	C.00	0.00	C.00	0.00
STD. DEVIATION	1.4142	0.0000	0.1414	0.0000	0.0000	113.1369	0.0000	0.0000	0.0000	0.0000
NO. OF VALUES	2	2	2	0	2	2	2	2	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA, 11/16/70

STATION 169996.
WARM R AT WP. R. RR STATIONS
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	925. MAGNESIUM MG.DISS MG/L	1005. BARIUM BA.DISS UG/L	1049. LEAD PB.DISS UG/L	720. CYANIDE CN MG/L	1000. ARSENIC AS.DISS UG/L	32730. PHENOLS UG/L	900. RESIDUE TOTAL MG/L	915. RESIDUE TOT FLT MG/L	22703. U-NAT DISOLVED UG/L
70/ 7/17 1250	2.30	0.00+	0.00**********	**********	**********	**********	187.00	118.00	**********
70/ 7/30 1150	2.00	0.00+	0.00**********	**********	**********	**********	139.00	99.00	**********
ARITHMETIC MEAN	2.15	0.00	0.00	0.00	0.00	0.00	163.00	108.50	0.00
STD. DEVIATION	0.2121	0.0000	0.0000	0.0000	0.0000	0.0000	33.9410	13.4351	0.0000
NO. OF VALUES	2	2	2	0	0	0	2	2	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM-SACT. 11/16/70

STATION 169990.
WARM R AT MM. R. RM STATIONS
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	955: SILICA SI/2 MG/L	680: T ORG C MG/L	38260: MBAS MG/L	31501: COLIFORM IMEDENDO MF/100ML	31616: FEC COLI MF-C44.5 MF/100ML	31673: STPCOCCI KF AGR MF/100ML
70/ 7/17 1230	300.00	18.00	**********	**********	**********	**********
70/ 9/30 1150	41.00	10.00	**********	**********	**********	**********
ARITHMETIC MEAN	170.50	14.00	0.00	0.00	0.00	0.00
STD. DEVIATION	183.1404	5.6568	0.0000	0.0000	0.0000	0.0000
NO. OF VALUES	2	2	0	0	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 169997.
SNAKE RIVER AT US-191 BRIDGE
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	10. WATER TEMP CENT	20. AIR TEMP CENT	3. VSAMPLOC DEPTH FEET	60. STREAM FLOW CUFT/SEC	300. DO MG/L	400. PH S U	403. LAB PH SU	99. CNDUCTVY AT 25C MICROMHO	70. TURB JKSN JU	410. T ALK CACO3 MG/L
70/ 9/23 1145	7.00	9.00	**********	**********	10.10	7.40	7.50	110.00	6.00	50.00
70/ 7/30 1200	15.00	20.00	**********	**********	9.10	8.10	7.50	143.00	1.00	62.00
ARITHMETIC MEAN	11.00	14.50	0.00	0.00	9.60	7.75	7.50	126.50	3.50	56.00
STD. DEVIATION	5.6568	7.7781	0.0000	0.0000	0.7071	0.4950	0.0055	23.3346	3.5355	8.4853
NO. OF VALUES	2	2	0	0	2	2	2	2	2	2

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 169997.
SNAKE RIVER AT US-191 BRIDGE
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	940. CHLORIDE CL MG/L	945. SULFATE SO4 MG/L	304. BOD 2 DAY MG/L	310. BOD 5 DAY MG/L	610. AMMONIA NH3-N MG/L	625. TOT KJEL N MG/L	630. NO2&NO3 N MG/L	665. PHOS-T P-WET MG/L	70507. PHOS-T ORTHO MG/L-P	915. CALCIUM CA.DISS MG/L
70/ 5/23 1145	2.00	9.30	**********	**********	0.01	0.17	0.07	0.03	0.00	16.00
70/ 7/30 1200	2.00	6.20	**********	**********	0.00+	0.13	0.02	0.07	0.02	13.00
ARITHMETIC MEAN	2.00	7.75	0.00	0.00	0.00	0.15	0.04	0.05	0.01	14.50
STD. DEVIATION	0.0013	2.1920	0.0000	0.0000	0.0070	0.0282	0.0353	0.0282	0.0106	2.1213
NO. OF VALUES	2	2	0	0	2	2	2	2	2	2

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA, 11/16/70

STATION 1629970
SNAKE RIVER AT US-191 BRIDGE
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	930. SODIUM NA,DISS MG/L	935. PTSSIUM K,DISS MG/L	950. FLUORIDE F,DISS MG/L	1020. BORON B,DISS UG/L	1040. COPPER CU UG/L	1045. IRON TOTAL UG/L	1055. MANGNESE MN UG/L	1090. ZINC ZN,DISS UG/L	1145. SELENIUM SE,DISS UG/L	9361. RA-226 DISOLVED PC/L
70/ 5/23 1145	6.80	2.00	0.45	**********	0.00+	450.00	50.00	0.00+**********		**********
70/ 7/30 1200	8.50	2.00	1.40	**********	0.00+	120.00	0.00+	0.00+**********		**********
ARITHMETIC MEAN	7.65	2.00	0.92	0.00	0.00	285.00	25.00	0.00	0.00	0.00
STD. DEVIATION	1.2020	0.0013	0.6717	0.0000	0.0000	233.3450	35.3553	0.0000	0.0000	0.0000
NO. OF VALUES	2	2	2	0	2	2	2	2	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA, 11/16/70

STATION 169997.
SNAKE RIVER AT US-191 BRIDGE
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	925. MGNSIUM MG,DISS MG/L	1005. BARIUM BA,DISS UG/L	1049. LEAD PB,DISS UG/L	720. CYANIDE CN MG/L	1000. ARSENIC AS,DISS UG/L	32730. PHENOLS UG/L	500. RESIDUE TOTAL MG/L	515. RESIDUE TOT FLT MG/L	22703. U-NAT DISOLVED UG/L
70/ 5/23 1145	3.10	0.00+	0.00**********	**********	**********	**********	96.00	96.00	**********
70/ 7/30 1200	4.20	0.00+	0.00**********	**********	**********	**********	152.00	82.00	**********
ARITHMETIC MEAN	3.65	0.00	0.00	0.00	0.00	0.00	124.00	89.00	0.00
STD. DEVIATION	0.7778	0.0000	0.0000	0.0000	0.0000	0.0000	39.5980	9.8994	0.0000
NO. OF VALUES	2	2	2	0	0	0	2	2	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM-BACT. 11/16/70

STATION 169997.
SNAKE RIVER AT US-191 BRIDGE
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	955. SILICA SI02 MG/L	680. T ORG C C MG/L	38260. MBAS MG/L	31501. COLIFORM INEDENDO MF/100ML	31616. FEC COLI MF=C44.5 MF/100ML	31673. STPCOCCI KF AGR MF/100ML
70/ 9/23 1145	**********	14.00	**********	**********	**********	**********
70/ 7/30 1200	32.00	17.00	**********	**********	**********	**********
ARITHMETIC MEAN	32.00	15.50	0.00	0.00	0.00	0.00
STD. DEVIATION	0.0000	2.1213	0.0000	0.0000	0.0000	0.0000
NO. OF VALUES	1	2	0	0	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

11.

18

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 169998. FALLS R 2 MI W OF TARGHEE FOREST
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	10. WATER TEMP CENT	20. AIR TEMP CENT	3. VSAMPLOC DEPTH FEET	60. STREAM FLOW CUFT/SEC	300. DO MG/L	400. PH S U	403. LAB PH SU	95. CNDUCTVY AT 25C MICROMHO	70. TURB JKSN JU	410. T ALK CACO3 MG/L
70/ 5/23 1025	3.50	10.00	**********	**********	9.80	7.20	6.80	71.00	4.50	27.00
70/ 7/17 1210	16.00	25.00	**********	**********	8.40	7.80	7.40	103.00	0.90	36.00
ARITHMETIC MEAN	9.75	17.50	0.00	0.00	9.10	7.50	7.10	87.00	2.70	31.50
STD. DEVIATION	6.8388	10.6066	0.0000	0.0000	0.9900	0.4242	0.4243	22.6274	2.5455	6.3640
NO. OF VALUES	2	2	0	0	2	2	2	2	2	2

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 1699980. FALLS N 2 MI W OF MISSOURI RIVER YELLOWSTONE RIVER TARGHEE FOREST

DATE TIME	940. CHLORIDE CL MG/L	945. SULFATE SO4 MG/L	304. BOD 2 DAY MG/L	310. BOD 5 DAY MG/L	610. AMMONIA NH3-N MG/L	625. TOT KJEL N MG/L	630. NO2&NO3 N MG/L	665. PHOS-T P-WET MG/L	70507. PHOS-T ORTHO MG/L-P	915. CALCIUM CA.DISS MG/L
70/ 5/25 1025	2.00	0.30	**********	**********	0.06	0.94	0.06	0.03	0.00	0.30
70/ 7/17 1210	5.00	4.60	**********	**********	0.01	0.02	0.04	0.02	0.02	5.00
ARITHMETIC MEAN	3.50	5.95	0.00	0.00	0.03	0.48	0.07	0.02	0.01	5.65
STD. DEVIATION	2.1213	1.3435	0.0000	0.0000	0.0353	0.6505	0.0141	0.0070	0.0106	0.9192
NO. OF VALUES	2	2	0	0	2	2	2	2	2	2

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 11/16/70

STATION 169998: FALLS R 2 MI W OF TARGHEE FOREST
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	930. SODIUM NA,DISS MG/L	935. PTSSIUM K,DISS MG/L	950. FLUORIDE F,DISS MG/L	1020. BORON B,DISS UG/L	1040. COPPER CU UG/L	1045. IRON TOTAL UG/L	1055. MANGNESE MN UG/L	1090. ZINC ZN,DISS UG/L	1145. SELENIUM SE,DISS UG/L	9502. RA-226 DISOLVED PC/L
70/ 5/23 1025	8.50	1.50	0.70	**********	0.00+	690.00	50.00	0.00+**********		**********
70/ 7/17 1210	12.00	2.30	1.90	**********	0.00+	180.00	0.00+	0.00+**********		**********
ARITHMETIC MEAN	10.25	1.90	1.30	0.00	0.00	415.00	25.00	0.00	0.00	0.00
STD. DEVIATION	2.4748	0.5656	0.8485	0.0000	0.0000	332.3399	35.3553	0.0000	0.0000	0.0000
NO. OF VALUES	2	2	2	0	2	2	2	2	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 11/16/70

STATION 169998. FALLS R 2 MI W OF TARGHEE FOREST
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	925. MAGNESIUM MG.DISS MG/L	1005. BARIUM BA.DISS UG/L	1049. LEAD PB.DISS UG/L	720. CYANIDE CN MG/L	1000. ARSENIC AS.DISS UG/L	32730. PHENOLS UG/L	500. RESIDUE TOTAL MG/L	515. RESIDUE TOT FLT MG/L	22703. U-NAT DISOLVED UG/L
70/ 5/23 1025	1.20	0.00+	0.00+	**********	**********	**********	96.00	59.00	**********
70/ 7/17 1210	1.20	0.00+	0.00+	**********	**********	**********	153.00	141.00	**********
ARITHMETIC MEAN	1.20	0.00	0.00	0.00	0.00	0.00	124.50	100.00	0.00
STD. DEVIATION	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	40.3051	57.9827	0.0000
NO. OF VALUES	2	2	2	0	0	0	2	2	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM-BACT. 11/16/70

STATION 169998.
FALLS R 2 MI W OF TARGHEE FOREST
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	955. SILICA SIO2 MG/L	680. T ORG C C MG/L	38260. MBAS MG/L	31501. COLIFORM IMEDENDO MF/100ML	31616. FEC COLI MF-C44.5 MF/100ML	31673. STPCOCCI KF AGR MF/100ML
70/ 5/23 1025	**********	8.00	**********	**********	**********	**********
70/ 7/17 1210	260.00	16.00	**********	**********	**********	**********
ARITHMETIC MEAN	260.00	12.00	0.00	0.00	0.00	0.00
STD. DEVIATION	0.0000	5.6568	0.0000	0.0000	0.0000	0.0000
NO. OF VALUES	1	2	0	2	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 11/16/70

STATION 169999.
FALLS R. BELOW BECHLER R. JUNC
PACIFIC NORTHWEST
SNAKE

DATE TIME	10. WATER TEMP CENT	20. AIR TEMP CENT	3. VSAMPLOC DEPTH FEET	60. STREAM FLOW CUFT/SEC	300. DO MG/L	400. PH S U	403. LAB PH SU	95. CNDUCTVY AT 25C MICROMHO	70. TURB JKSN JU	410. T ALK CACO3 MG/L
70/ 7/17 1125	14.50	22.00	**********	**********	9.00	7.70	7.70	125.00	0.50	40.00
70/ 7/30 1035	12.00	20.00	**********	**********	8.80	8.30	7.60	139.00	0.50	46.00
ARITHMETIC MEAN	13.25	21.00	0.00	0.00	8.90	8.00	7.65	132.00	0.50	43.00
STD. DEVIATION	1.7677	1.4142	0.0000	0.0000	0.1417	0.4243	0.0709	9.9002	0.0003	4.2427
NO. OF VALUES	2	2	0	0	2	2	2	2	2	2

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 169990.
FALLS R. BELOW BECHLER R. JUNC
PACIFIC NORTHWEST
SNAKE

DATE TIME	940. CHLORIDE CL MG/L	945. SULFATE SO4 MG/L	304. BOD 2 DAY MG/L	310. BOD 5 DAY MG/L	610. AMMONIA NH3-N MG/L	625. TOT KJEL N MG/L	630. NO2&NO3 N MG/L	665. PHOS-T P-WET MG/L	70507. PHOS-T ORTHO MG/L-P	916. CALCIUM CA.DISS MG/L
70/ 7/17 1125	8.00	4.50	**********	**********	0.00+	0.03	0.01	0.01	0.01	3.90
70/ 7/30 1035	10.00	3.90	**********	**********	0.00+	0.03	0.01	0.01	0.00+	4.00
ARITHMETIC MEAN	9.00	4.20	0.00	0.00	0.00	0.03	0.01	0.01	0.00	3.95
STD. DEVIATION	1.4142	0.4242	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0070	0.0707
NO. OF VALUES	2	2	0	0	2	2	2	2	2	2

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 11/16/70

STATION 1A9999.
FALLS R. BELOW BECHLER R. JUNC
PACIFIC NORTHWEST
SNAKE

DATE TIME	930. SODIUM NA+DISS MG/L	935. PTSSIUM K+DISS MG/L	950. FLUORIDE F-DISS MG/L	1020. BORON B-DISS UG/L	1040. COPPER CU UG/L	1045. IRON TOTAL UG/L	1055. MANGNESE MN UG/L	1090. ZINC ZN+DISS UG/L	1145. SELENIUM SE+DISS UG/L	9503. RA-226 DISOLVED PC/L
70/ 7/17 1125	19.00	3.20	2.60	**********	0.00+	0.00+	0.00+	0.00+**********		**********
70/ 7/30 1035	22.00	3.40	3.30	**********	0.00+	0.00+	0.00+	0.00+**********		**********
ARITHMETIC MEAN	20.50	3.30	2.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STD. DEVIATION	2.1213	0.1414	0.4949	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NO. OF VALUES	2	2	2	0	2	2	2	2	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 169999.
FALLS R. BELOW BECHLER R. JUNC
PACIFIC NORTHWEST
SNAKE

DATE TIME	929. MAGNESIUM MG.DISS MG/L	1005. BARIUM BA.DISS UG/L	1049. LEAD PB.DISS UG/L	720. CYANIDE CN MG/L	1000. ARSENIC AS.DISS UG/L	32730. PHENOLS UG/L	500. RESIDUE TOTAL MG/L	515. RESIDUE TOT FLT MG/L	22703. U-SAT DISOLVED UG/L
70/ 7/17 1125	**********	0.00+	0.00+**********	**********	**********	**********	149.00	134.00	**********
70/ 7/30 1035	0.60	0.00+	0.00+**********	**********	**********	**********	169.00	106.00	**********
ARITHMETIC MEAN	0.60	0.00	0.00	0.00	0.00	0.00	159.00	120.00	0.00
STD. DEVIATION	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	14.1424	19.7989	0.0000
NO. OF VALUES	1	2	2	0	0	0	2	2	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM-BACT. 11/16/70

STATION 1699999.
FALLS R. BELOW BECHLER R. JUNC
PACIFIC NORTHWEST
SNAKE

DATE TIME	955. SILICA SIO2 MG/L	680. T ORG C C MG/L	38260. MBAS MG/L	31501. COLIFORM IMEDENDO MF/100ML	31616. FEC COLI MF-C44.5 MF/100ML	31673. STPCOCCI KF AGR MF/100ML
70/ 7/17 1125	34.00	33.00	**********	**********	**********	**********
70/ 7/30 1035	39.00	10.00	**********	**********	**********	**********
ARITHMETIC MEAN	36.50	21.50	0.00	0.00	0.00	0.00
STD. DEVIATION	3.5356	16.2634	0.0000	0.0000	0.0000	0.0000
NO. OF VALUES	2	2	0	0	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 293088.
SODA BUTTE CR ABOVE MCLAREN MINE
MISSOURI RIVER
YELLOWSTONE RIVER

DATE	TIME	10. WATER TEMP CENT	20. AIR TEMP CENT	3. VSAMPLOC DEPTH FEET	60. STREAM FLOW CUFT/SEC	300. DO MG/L	400. PH S U	403. LAB PH SU	95. CNDUCTVY AT 25C MICROMHO	70. TURB JKSN JU	410. T ALK CACO3 MG/L
69/ 5/17	0	**********	**********	**********	**********	**********	7.50	**********	173.00	1.30	76.00
69/ 6/17	0	**********	**********	**********	**********	**********	7.80	**********	210.00	**********	98.00
69/ 7/16	0	**********	**********	**********	**********	**********	8.10	**********	218.00	**********	106.00
69/ 8/15	1105	**********	**********	**********	**********	**********	7.60	**********	242.00	**********	119.00
69/ 9/19	1105	**********	**********	**********	**********	**********	7.80	**********	246.00	**********	112.00
69/10/16	1055	**********	**********	**********	**********	**********	7.90	**********	253.00	**********	119.00
ARITHMETIC MEAN		0.00	0.00	0.00	0.00	0.00	7.78	0.00	223.66	1.30	105.00
STD. DEVIATION		0.0000	0.0000	0.0000	0.0000	0.0000	0.2238	0.0000	29.9362	0.0000	16.3220
NO. OF VALUES		0	0	0	0	0	6	0	6	1	6

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 283008.
SODA BUTTE CR ABOVE MCLAREN MINE
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	940. CHLORIDE CL MG/L	945. SULFATE SO4 MG/L	304. BOD 2 DAY MG/L	310. BOD 5 DAY MG/L	610. AMMONIA NH3-N MG/L	625. TOT KJEL N MG/L	630. NO2&NO3 N MG/L	665. PHOS-T P-WET MG/L	70507. PHOS-T ORTHO MG/L-P	915. CALCIUM CA-DISS MG/L
69/ 5/17 0	0.40	9.80	**********	**********	**********	**********	**********	0.02	0.01-	27.00
69/ 6/17 0	0.10	9.00	**********	**********	**********	**********	**********	0.03	0.03	33.00
69/ 7/16 0	0.20	4.00	**********	**********	**********	**********	**********	0.10	0.01-	38.00
69/ 8/15 1105	0.20	10.00	**********	**********	**********	**********	**********	0.01	0.01	39.00
69/ 9/19 1105	0.00	9.30	**********	**********	**********	**********	**********	0.01	0.01	37.00
69/10/16 1055	0.20	10.00	**********	**********	**********	**********	**********	0.01	**********	39.00
ARITHMETIC MEAN	0.21	8.71	0.00	0.00	0.00	0.00	0.00	0.03	0.01	38.00
STD. DEVIATION	0.2041	2.3413	0.0000	0.0000	0.0000	0.0000	0.0000	0.0352	0.0089	4.5600
NO. OF VALUES	6	6	0	0	0	0	0	6	5	6

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 11/16/70

STATION 2930085
SODA BUTTE CR ABOVE MCLAREN MINE
MISSOURI RIVER
YELLOWSTONE RIVER

DATE	TIME	930: SODIUM NA:DISS MG/L	935: PTSSIUM K:DISS MG/L	950: FLUORIDE F:DISS MG/L	1020: BORON B:DISS UG/L	1040: COPPER CU UG/L	1045: IRON TOTAL UG/L	1055: MANGNESE MN UG/L	1090: ZINC ZN:DISS UG/L	1165: SELENIUM SE:DISS UG/L	9503: RA-226 DISOLVED PC/L
69/ 5/17	0	0.90	0.40	**********	**********	20.00-	200.00	10.00-	100.00	**********	**********
69/ 6/17	0	1.10	0.60	**********	**********	20.00	50.00-	30.00	100.00	**********	**********
69/ 7/16	0	1.00	0.50	**********	**********	20.00-	50.00	30.00	100.00	**********	**********
69/ 8/15	1105	1.30	0.80	**********	**********	20.00-	50.00-	10.00-	100.00	**********	**********
69/ 9/19	1105	1.20	0.80	**********	**********	20.00-	100.00	10.00-	110.00	**********	**********
69/10/16	1055	1.30	0.60	**********	**********	20.00-	50.00-	10.00-	80.00	**********	**********
ARITHMETIC MEAN		1.13	0.61	0.00	0.00	20.00	83.33	16.66	98.33	0.00	0.00
STD. DEVIATION		0.1633	0.1652	0.0000	0.0000	0.0139	60.8529	10.3279	9.8324	0.0000	0.0000
NO. OF VALUES		6	6	0	0	6	6	6	6	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 11/16/70

STATION 293008.
SODA BUTTE CK ABOVE MCLAREN MINE
MISSOURI RIVER
YELLOWSTONE RIVER

DATE	TIME	925. MAGNESIUM MG,DISS MG/L	1005. BARIUM BA,DISS UG/L	1049. LEAD PB,DISS UG/L	720. CYANIDE CN MG/L	1000. ARSENIC AS,DISS UG/L	32730. PHENOLS UG/L	500. RESIDUE TOTAL MG/L	515. RESIDUE TOT FLT MG/L	22703. U-NAT DISOLVED UG/L
69/ 5/17	0	5.40	**********	200.00-**********		30.00	**********	**********	114.00	**********
69/ 6/17	0	6.30	**********	200.00-**********		10.00-**********		**********	116.00	**********
69/ 7/16	0	6.50	**********	200.00-**********	**********	**********	**********	**********	122.00	**********
69/ 8/13	1105	6.50	**********	200.00-**********	**********	**********	**********	**********	130.00	**********
69/ 9/16	1105	5.70	**********	200.00-	0.02	**********	**********	**********	124.00	**********
69/10/16	1055	8.30	**********	200.00-	0.00	**********	**********	**********	139.00	**********
ARITHMETIC MEAN		6.48	0.00	200.00	0.01	20.00	0.00	0.00	125.16	0.00
STD. DEVIATION		1.0088	0.0000	0.1292	0.0141	14.1421	0.0000	0.0000	10.2836	0.0000
NO. OF VALUES		6	6	6	2	2	0	0	6	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 11/16/78

STATION 295009.
CR. ABOVE MCLAREN MINE TAILINGS
MISSOURI RIVER
YELLOWSTONE RIVER

DATE	TIME	10. WATER TEMP CENT	20. AIR TEMP CENT	1. VSAMPLOC DEPTH FEET	60. STREAM FLOW CUFT/SEC	300. DO MG/L	400. PH S U	403. LAB PH SU	95. CNDUCTVY AT 25C MICROMHO	70. TURB JKSN JU	410. T ALK CACO3 MG/L
69/ 5/17	0	**********	**********	**********	**********	**********	7.60	**********	129.00	1.20	69.00
69/ 6/17	0	**********	**********	**********	**********	**********	7.50	**********	120.00	**********	46.00
69/ 7/16	0	**********	**********	**********	**********	**********	7.80	**********	128.00	**********	48.00
69/ 8/15	1130	**********	**********	**********	**********	**********	7.60	**********	172.00	**********	60.00
69/ 9/19	1120	**********	**********	**********	**********	**********	7.60	**********	193.00	**********	53.00
69/10/16	1110	**********	**********	**********	**********	**********	7.60	**********	212.00	**********	62.00
ARITHMETIC MEAN		0.00	0.00	0.00	0.00	0.00	7.61	0.00	159.00	1.20	59.66
STD. DEVIATION		0.0000	0.0000	0.0000	0.0000	0.0000	0.0986	0.0000	38.7712	0.0000	7.8147
NO. OF VALUES		0	0	0	0	0	6	0	6	1	6

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 11/16/70 , STATION 2950000
CR= ABOVE ACLAREN MINE TAILINGS
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	940= CHLORIDE CL MG/L	945= SULFATE SO4 MG/L	300= BOD 5 DAY MG/L	310= BOD 5 DAY MG/L	610= AMMONIA NH3-N MG/L	625= TOT K.JEL N MG/L	630= NO2&NO3 N MG/L	665= PHOS-T P-WET MG/L	70507= PHOS-T ORTHO MG/L-P	915= CALCIUM CA=DISS MG/L
69/ 5/17 0	0.20	20.00	**********	**********	**********	**********	**********	0.02	0.01=	31.00
69/ 6/17 0	0.00	12.00	**********	**********	**********	**********	**********	0.03	0.03	19.00
69/ 7/16 0	0.40	7.00	**********	**********	**********	**********	**********	0.07	0.01=	20.00
69/ 8/15 1130	0.40	26.00	**********	**********	**********	**********	**********	0.01	0.01=	27.00
69/ 9/19 1120	0.10	32.00	**********	**********	**********	**********	**********	0.02	0.01	28.00
69/10/16 1110	0.00	35.00	**********	**********	**********	**********	**********	0.01	**********	32.00
ARITHMETIC MEAN	0.18	22.16	0.00	0.00	0.00	0.00	0.00	0.02	0.01	24.50
STD. DEVIATION	0.1854	11.2679	0.0000	0.0000	0.0000	0.0000	0.0000	0.0225	0.0089	5.2440
NO. OF VALUES	6	6	0	0	0	0	0	6	5	6

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 11/16/70

STATION 293009.
CR. ABOVE MCLAREN MINE TAILINGS
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	920. SODIUM NA.DISS MG/L	935. PTSSIUM K.DISS MG/L	950. FLUORIDE F.DISS MG/L	1020. BORON B.DISS UG/L	1040. COPPER CU UG/L	1045. IRON TOTAL UG/L	1055. MANGNESE MN UG/L	1090. ZINC ZN.DISS UG/L	1145. SELENIUM SE.DISS UG/L	9503. RA-226 DISOLVED PC/L
69/ 5/17 0	0.80	0.50	**********	**********	20.00-	700.00	10.00-	100.00	**********	**********
69/ 6/17 0	0.60	0.04	**********	**********	20.00-	50.00-	10.00-	100.00	**********	**********
69/ 7/16 0	0.70	0.40	**********	**********	20.00-	100.00	10.00-	100.00	**********	**********
69/ 8/15 1130	0.90	0.70	**********	**********	20.00-	50.00-	10.00-	100.00	**********	**********
69/ 9/19 1122	0.90	0.70	**********	**********	20.00-	500.00	10.00-	110.00	**********	**********
69/10/16 1119	0.90	0.50	**********	**********	20.00-	50.00-	10.00-	80.00	**********	**********
ARITHMETIC MEAN	0.80	0.47	0.00	0.00	20.00	241.66	10.00	98.33	0.00	0.00
STD. DEVIATION	0.1264	0.2438	0.0000	0.0000	0.0139	285.3357	0.0098	9.8324	0.0000	0.0000
NO. OF VALUES	6	6	0	0	6	6	6	6	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 11/16/70

STATION 293009.
CR. ABOVE MCLAREN MINE TAILINGS
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	925. MAGNESIUM MG,DISS MG/L	1005. BARIUM BA,DISS UG/L	1049. LEAD PB,DISS UG/L	720. CYANIDE CN MG/L	1000. ARSENIC AS,DISS UG/L	32730. PHENOLS UG/L	500. RESIDUE TOTAL MG/L	515. RESIDUE TOT FLT MG/L	22703. U-NAT DISOLVED UG/L
69/ 5/17 0	3.10 **********		200.00-**********		10.00-**********		**********	94.00	**********
69/ 6/17 0	2.80 **********		200.00-**********		10.00-**********		**********	65.00	**********
69/ 7/16 0	3.50 **********		200.00-**********	**********	**********	**********	**********	66.00	**********
69/ 8/15 1130	3.10 **********		200.00-**********	**********	**********	**********	**********	103.00	**********
69/ 9/19 1120	3.90 **********		200.00-	0.03	**********	**********	**********	103.00	**********
69/10/16 1110	2.00 **********		200.00-	0.02	**********	**********	**********	124.00	**********
ARITHMETIC MEAN	3.06	0.00	200.00	0.02	10.00	0.00	0.00	92.50	0.00
STD. DEVIATION	0.6470	0.0000	0.1292	0.0070	0.0055	0.0000	0.0000	23.1236	0.0000
NO. OF VALUES	6	0	6	2	2	0	0	6	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 11/16/70

STATION 295010.
CR. BELOW MCLAREN MINE TAILINGS
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	10. WATER TEMP CENT	20. AIR TEMP CENT	2. VSAMPLOC DEPTH FEET	60. STREAM FLOW CUFT/SEC	300. DO MG/L	400. PH S U	403. LAB PH SU	95. CNDUCTVY AT 25C MICROMHO	70. TURB JKSN JU	410. T ALK CACO3 MG/L
69/ 5/17 0	**********	**********	**********	**********	**********	7.40	**********	260.00	63.00	39.00
69/ 6/17 0	**********	**********	**********	**********	**********	7.10	**********	170.00	**********	44.00
69/ 7/16 0	**********	**********	**********	**********	**********	7.40	**********	228.00	**********	48.00
69/ 8/15 1145	**********	**********	**********	**********	**********	7.70	**********	344.00	**********	114.00
69/ 9/19 1140	**********	**********	**********	**********	**********	7.80	**********	416.00	**********	69.00
69/10/16 1120	**********	**********	**********	**********	**********	7.80	**********	409.00	**********	114.00
ARITHMETIC MEAN	0.00	0.00	0.00	0.00	0.00	7.56	0.00	304.49	63.00	71.33
STD. DEVIATION	0.0000	0.0000	0.0000	0.0000	0.0000	0.2753	0.0000	100.8324	0.0000	34.5928
NO. OF VALUES	0	0	0	0	0	6	0	6	1	6

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 203010.
CR. BELOW MCLAREN MINE TAILINGS
MISSOURI RIVER
YELLOWSTONE RIVER

DATE	TIME	940. CHLORIDE CL MG/L	945. SULFATE SO4 MG/L	304. BOD 2 DAY MG/L	310. BOD 5 DAY MG/L	610. AMMONIA NH3-N MG/L	625. TOT KJEL N MG/L	630. NO2&NO3 N MG/L	665. PHOS-T P-WET MG/L	70507. PHOS-T ORTHO MG/L-P	915. CALCIUM CA.DISS MG/L
69/ 5/17	0	0.40	89.00	**********	**********	**********	**********	**********	0.03	0.01-	38.00
69/ 6/17	0	0.00	42.00	**********	**********	**********	**********	**********	0.02	0.02	27.00
69/ 7/16	0	0.20	47.00	**********	**********	**********	**********	**********	0.03	0.01-	39.00
69/ 8/18	1145	0.80	56.00	**********	**********	**********	**********	**********	0.01	0.01	53.00
69/ 9/19	1140	0.40	136.00	**********	**********	**********	**********	**********	0.10	0.09	56.00
69/10/16	1120	0.00	100.00	**********	**********	**********	**********	**********	0.01-	**********	58.00
ARITHMETIC MEAN		0.30	78.33	0.00	0.00	0.00	0.00	0.00	0.03	0.02	44.50
STD. DEVIATION		0.3033	36.6315	0.0000	0.0000	0.0000	0.0000	0.0000	0.0338	0.0349	12.8491
NO. OF VALUES		6	6	0	0	0	0	0	6	5	6

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 11/16/70

STATION 295010.
CR. BELOW MCLAREN MINE TAILINGS
MISSOURI RIVER
YELLOWSTONE RIVER

DATE	TIME	930. SODIUM NA+DISS MG/L	935. PTSSIUM K+DISS MG/L	950. FLUORIDE F+DISS MG/L	1020. BORON B+DISS UG/L	1040. COPPER CU UG/L	1045. IRON TOTAL UG/L	1055. MANGNESE MN UG/L	1090. ZINC ZN+DISS UG/L	1149. SELENIUM SE+DISS UG/L	9503. RA-226 DISOLVED PC/L
69/ 5/17	0	0.90	1.10	**********	**********	20.00	1000.00	640.00	200.00	**********	**********
69/ 6/17	0	0.70	0.50	**********	**********	20.00	3800.00	330.00	100.00	**********	**********
69/ 7/16	0	0.80	0.70	**********	**********	20.00-	2100.00	440.00	100.00	**********	**********
69/ 8/15	1145	1.40	1.00	**********	**********	20.00-	4000.00	440.00	100.00	**********	**********
69/ 9/19	1140	1.40	1.70	**********	**********	780.00	14000.00	480.00	170.00	**********	**********
69/10/16	1120	1.30	1.30	**********	**********	20.00-	6400.00	620.00	120.00	**********	**********
ARITHMETIC MEAN		1.08	1.05	0.00	0.00	146.66	5216.66	491.66	131.66	0.00	0.00
STD. DEVIATION		0.3188	0.4277	0.0000	0.0000	310.2683	4680.3427	118.3929	43.0891	0.0000	0.0000
NO. OF VALUES		6	6	0	0	6	6	6	6	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA, 11/16/70

STATION 2930100
CR, BELOW MCLAREN MINE TAILINGS
MISSOURI RIVER
YELLOWSTONE RIVER

DATE	TIME	925, MAGNESIUM MG,DISS MG/L	1005, BARIUM BA,DISS UG/L	1049, LEAD PB,DISS UG/L	720, CYANIDE CN MG/L	1000, ARSENIC AS,DISS UG/L	32730, PHENOLS UG/L	500, RESIDUE TOTAL MG/L	515, RESIDUE TOT FLT MG/L	22703, U-NAT DISSOLVED UG/L
69/ 5/17	0	10.00	**********	200.00-	**********	20.00	**********	**********	192.00	**********
69/ 6/17	0	5.80	**********	200.00-	**********	10.00	**********	**********	113.00	**********
69/ 7/16	0	8.60	**********	200.00-	**********	**********	**********	**********	140.00	**********
69/ 8/15	1145	11.00	**********	200.00-	**********	**********	**********	**********	214.00	**********
69/ 9/19	1140	14.00	**********	200.00-	0.03	**********	**********	**********	249.00	**********
69/10/16	1120	15.00	**********	200.00-	0.01	**********	**********	**********	252.00	**********
ARITHMETIC MEAN		10.73	0.00	200.00	0.02	15.00	0.00	0.00	193.66	0.00
STD. DEVIATION		3.4168	0.0000	0.1292	0.0141	7.0710	0.0000	0.0000	56.4790	0.0000
NO. OF VALUES		6	0	6	2	2	0	0	6	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 12/16/70

STATION 2990110
SODA BUTTE CR. AT COOKE CITY
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	10. WATER TEMP CENT	20. AIR TEMP CENT	3. VSAMPLOC DEPTH FEET	60. STREAM FLOW CUFT/SEC	300. DO MG/L	400. PH S U	403. LAB PH SU	95. CNDUCTVY AT 25C MICROMHO	70. TURB JKSN JU	410. T ALK CACO3 MG/L
69/ 5/17 0	**********	**********	**********	**********	**********	7.60	**********	181.00	40.00	62.00
69/ 6/17 0	**********	**********	**********	**********	**********	7.60	**********	190.00	**********	66.00
69/ 7/16 0	**********	**********	**********	**********	**********	7.80	**********	217.00	**********	70.00
69/ 8/15 1155	**********	**********	**********	**********	**********	7.80	**********	315.00	**********	107.00
69/ 9/19 1135	**********	**********	**********	**********	**********	7.80	**********	349.00	**********	76.00
69/10/16 1140	**********	**********	**********	**********	**********	7.80	**********	457.00	**********	115.00
70/ 5/ 9 1130	3.00	3.00	**********	**********	8.80	7.20	7.40	365.00	45.00	142.00
70/ 5/13 1130	1.00	6.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 5/14 930	1.00	6.00	**********	**********	**********	**********	**********	7.00	**********	**********
70/ 5/15 915	2.00	6.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 5/16 1100	4.00	16.00	**********	0.90	**********	**********	**********	7.30	**********	**********
70/ 5/17 850	2.00	7.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 5/24 1240	4.00	17.00	**********	**********	9.00	7.20	7.40	236.00	50.00	76.00
70/ 5/28 920	1.00	5.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 7/22 1000	6.00	11.50	**********	**********	9.10	7.10	7.40	270.00	16.00	86.00
70/ 8/ 2 1200	9.00	20.00	**********	**********	8.10	7.60	7.10	296.00	19.00	98.00
70/ 8/11 1015	6.00	19.00	**********	**********	**********	**********	7.40	**********	**********	**********
ARITHMETIC MEAN	3.54	10.22	0.00	0.90	8.75	7.55	7.28	307.59	34.00	89.80
STD. DEVIATION	2.5831	5.8539	0.0000	0.0000	0.4509	0.2709	0.1677	122.5132	15.5080	25.4943
NO. OF VALUES	11	11	0	1	4	10	7	10	5	10

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 11/16/70

STATION 2930110
SODA BUTTE CR. AT COOKE CITY
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	940: CHLORIDE CL MG/L	945: SULFATE SO4 MG/L	304: BOD 2 DAY MG/L	310: BOD 5 DAY MG/L	610: AMMONIA NH3-N MG/L	625: TOT KJEL N MG/L	630: NO2&NO3 N MG/L	665: PHOS-T P-WET MG/L	70507: PHOS-T ORTHO MG/L-P	918: CALCIUM CA,DISS MG/L
69/ 5/17 0	0.20	36.00	**********	**********	**********	**********	**********	0.05	0.01-	30.00
69/ 6/17 0	0.00	24.00	**********	**********	**********	**********	**********	0.02	0.02	29.00
69/ 7/16 0	0.40	33.00	**********	**********	**********	**********	**********	0.03	0.02	33.00
69/ 8/15 1155	3.10	56.00	**********	**********	**********	**********	**********	0.01	0.01	49.00
69/ 9/19 1155	1.00	91.00	**********	**********	**********	**********	**********	0.10	0.09	49.00
69/10/16 1140	0.00	95.00	**********	**********	**********	**********	**********	0.02	**********	60.00
70/ 5/ 9 1130	4.00	210.00	**********	**********	0.03	0.04	0.05	0.01	0.01	130.00
70/ 5/14 930	**********	**********	0.50	0.40	**********	**********	**********	**********	**********	**********
70/ 5/16 1100	**********	**********	0.80	0.40	**********	**********	**********	**********	**********	**********
70/ 5/24 1240	0.80	52.00	**********	**********	0.03	0.05	0.08	0.02	0.00	120.00
70/ 7/22 1000	0.30	65.00	**********	**********	0.04	0.04	0.02	0.01	0.00+	42.00
70/ 8/ 2 1200	0.20	60.00	**********	**********	0.01	0.04	0.02	0.00+	0.00+	36.00
ARITHMETIC MEAN	1.00	71.70	0.65	0.40	0.02	0.04	0.04	0.02	0.01	57.00
STD. DEVIATION	1.3976	53.7463	0.2121	0.0002	0.0125	0.0050	0.0287	0.0290	0.0280	36.7931
NO. OF VALUES	10	10	2	2	4	4	4	10	9	10

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA, 11/16/70

STATION 293011, SODA BUTTE CR, AT COOKE CITY
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME		930, SODIUM NA,DISS MG/L	935, PTSSIUM K,DISS MG/L	950, FLUORIDE F,DISS MG/L	1020, BORON B,DISS UG/L	1040, COPPER CU UG/L	1045, IRON TOTAL UG/L	1055, MANGNESE MN UG/L	1090, ZINC ZN,DISS UG/L	1145, SELENIUM SE,DISS UG/L	9503, RA-226 DISOLVED PC/L
69/ 5/17	0	0.80	0.90	**********	**********	130.00	6400.00	70.00	200.00	**********	**********
69/ 6/17	0	0.80	0.80	**********	**********	20.00-	1600.00	120.00	100.00	**********	**********
69/ 7/16	0	1.00	0.70	**********	**********	20.00-	3500.00	140.00	100.00	**********	**********
69/ 8/15	1155	1.30	0.90	**********	**********	20.00-	3400.00	410.00	100.00	**********	**********
69/ 9/19	1155	1.40	2.00	**********	**********	340.00	16000.00	440.00	170.00	**********	**********
69/10/16	1140	1.20	1.20	**********	**********	20.00-	4900.00	580.00	130.00	**********	**********
70/ 5/ 9	1130	1.70	2.10	0.20	**********	0.00+	89000.00	670.00	20.00	**********	**********
70/ 5/24	1240	1.10	1.10	0.00	**********	600.00	340.00	210.00	40.00	**********	**********
70/ 7/22	1000	1.30	0.90	0.00	**********	0.00+	3500.00	270.00	0.00	**********	**********
70/ 8/ 2	1200	1.40	1.10	0.00	**********	0.00+	1900.00	400.00	0.00	**********	**********
ARITHMETIC MEAN		1.20	1.14	0.05	0.00	114.99	12693.98	360.99	86.00	0.00	0.00
STD. DEVIATION		0.2828	0.5211	0.1000	0.0000	200.51292	5776.1523	243.0567	69.7933	0.0000	0.0000
NO. OF VALUES		10	10	4	9	10	10	10	10	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 11/16/70

STATION 293011.
SODA BUTTE CR. AT COOKE CITY
MISSOURI RIVER
YELLOWSTONE RIVER

DATE	TIME	925. MAGNESIUM MG.DISS MG/L	1005. BARIUM BA.DISS UG/L	1049. LEAD PB.DISS UG/L	720. CYANIDE CN MG/L	1000. ARSENIC AS.DISS UG/L	32730. PHENOLS UG/L	500. RESIDUE TOTAL MG/L	519. RESIDUE TOT FLT MG/L	22703. U-NAT DISOLVED UG/L
69/ 5/17	0	6.60	**********	200.00-	**********	10.00	**********	**********	140.00	**********
69/ 6/17	0	5.80	**********	200.00-	**********	10.00-	**********	**********	103.00	**********
69/ 7/16	0	7.00	**********	200.00-	**********	**********	**********	**********	117.00	**********
69/ 8/13	1155	18.00	**********	200.00-	**********	**********	**********	**********	198.00	**********
69/ 9/19	1155	12.00	**********	200.00-	0.02	**********	**********	**********	202.00	**********
69/10/16	1140	17.00	**********	200.00-	0.01	**********	**********	**********	263.00	**********
70/ 5/ 9	1130	29.00	0.00+	0.00+	**********	**********	**********	440.00	426.00	**********
70/ 5/24	1240	11.00	0.00+	0.00+	**********	**********	**********	313.00	116.00	**********
70/ 7/22	1000	6.00	0.00+	0.00+	**********	**********	**********	292.00	208.00	**********
70/ 8/ 2	1200	11.99	0.00+	0.00+	**********	**********	**********	231.00	178.00	**********
ARITHMETIC MEAN		11.83	0.00	120.00	0.01	10.00	0.00	319.00	193.25	0.00
STD. DEVIATION		5.8814	0.0000	103.2794	0.0070	0.0095	0.0000	87.8446	95.4533	0.0000
NO. OF VALUES		10	4	10	2	2	0	4	10	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM-BACT. 11/16/70

STATION 293011.
SODA BUTTE CK. AT COOKE CITY
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	955. SILICA SIO2 MG/L	680. T ORG C C MG/L	38260. NBAS MG/L	31501. COLIFORM IMEDENDO MF/100ML	31616. FEC COLI MF-C44.5 MF/100ML	31673. STPCOCCI KF AGR MF/100ML
70/ 5/ 8 1130	**********	22.00	**********	**********	**********	**********
70/ 5/13 1130	**********	**********	**********	1.00	1.00-	**********
70/ 5/14 930	**********	**********	**********	1.00-	1.00-	**********
70/ 5/15 915	**********	**********	**********	1.00	1.00-	**********
70/ 5/16 1100	**********	**********	**********	3.00	1.00	**********
70/ 5/17 850	**********	**********	**********	1.00	1.00-	**********
70/ 5/24 1240	**********	21.00	**********	**********	**********	**********
70/ 5/28 920	**********	**********	**********	30.00	4.00	**********
70/ 7/22 1000	6.00	21.00	**********	**********	**********	**********
70/ 8/ 2 1200	7.00	29.00	**********	**********	**********	**********
70/ 8/11 1015	**********	**********	**********	**********	1.00-	4.00
ARITHMETIC MEAN	7.50	23.25	0.00	6.16	1.42	4.00
STD. DEVIATION	0.7071	3.5622	0.0000	11.7032	1.1338	0.0000
NO. OF VALUES	2	4	0	6	7	1

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 293012.
WOODY CR. ABOVE COOKE CITY
MISSOURI RIVER
YELLOWSTONE RIVER

DATE	TIME	10. WATER TEMP CENT	20. AIR TEMP CENT	5. VSAMPLOC DEPTH FEET	60. STREAM FLOW CUFT/SEC	300. DO MG/L	400. PH S U	403. LAB PH SU	95. CNDUCTVY AT 25C MICROMHO	70. TURB JKSN JU	410. T ALK CACO3 MG/L
69/ 5/17	0	**********	**********	**********	**********	**********	7.50	**********	96.00	8.20	48.00
69/ 6/17	0	**********	**********	**********	**********	**********	7.20	**********	70.00	**********	33.00
69/ 7/16	0	**********	**********	**********	**********	**********	7.20	**********	87.00	**********	26.00
69/ 8/15	1200	**********	**********	**********	**********	**********	7.60	**********	99.00	**********	48.00
69/ 9/19	1210	**********	**********	**********	**********	**********	7.90	**********	126.00	**********	57.00
69/10/16	1150	**********	**********	**********	**********	**********	7.50	**********	131.00	**********	58.00
ARITHMETIC MEAN		0.00	0.00	0.00	0.00	0.00	7.48	0.00	96.50	8.20	48.00
STD. DEVIATION		0.0000	0.0000	0.0000	0.0000	0.0000	0.2640	0.0000	29.4262	0.0000	12.9304
NO. OF VALUES		0	0	0	0	0	6	0	6	1	6

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 11/16/70

STATION 2Y3012:
WOODY CR. ABOVE COOKE CITY
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	940: CHLORIDE CL MG/L	945: SULFATE SO4 MG/L	304: BOD 2 DAY MG/L	310: BOD 5 DAY MG/L	610: AMMONIA NH3-N MG/L	625: TOT KJEL N MG/L	630: NO2&NO3 N MG/L	665: PHOS-T P-WET MG/L	70507: PHOS-T ORTHO MG/L-P	915: CALCIUM CA-DISS MG/L
69/ 5/17 0	0.10	6.00	**********	**********	**********	**********	**********	0.06	0.04	14.00
69/ 6/17 0	0.00	5.00	**********	**********	**********	**********	**********	0.07	0.09	7.00
69/ 7/16 0	0.20	8.00	**********	**********	**********	**********	**********	1.32	0.85	13.00
69/ 8/15 1200	0.50	8.00	**********	**********	**********	**********	**********	0.07	0.07	12.00
69/ 9/19 1210	0.00	7.60	**********	**********	**********	**********	**********	0.07	0.07	14.00
69/10/16 1150	0.00	10.00	**********	**********	**********	**********	**********	0.07	**********	16.00
ARITHMETIC MEAN	0.13	7.44	0.00	0.00	0.00	0.00	0.00	0.27	0.05	12.60
STD. DEVIATION	0.1964	1.7512	0.0000	0.0000	0.0000	0.0000	0.0000	0.5111	0.0179	2.7894
NO. OF VALUES	4	4	0	0	0	0	0	4	3	4

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 11/18/70

STATION 2550120
WOODY CR. ABOVE COOKE CITY
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	2720, SODIUM NA,0136 MG/L	2721, POTASSIUM K,0136 MG/L	2540, FLUORIDE F,0136 MG/L	1005, ARSENIC AS,0136 UG/L	1040, COPPER CU UG/L	1045, IRON TOTAL UG/L	1055, MANGANESE MN UG/L	1090, ZINC ZN,0136 UG/L	1145, SELENIUM SE,0136 UG/L	1502, RA-226 DISSOLVED PC/L
69/ 6/17 0	0.00	0.00	**********	**********	20.00-	1000.00	10.00	100.00	**********	**********
69/ 6/17 4	0.00	0.20	**********	**********	20.00-	300.00	10.00-	100.00	**********	**********
69/ 7/24 0	0.00	1.70	**********	**********	20.00-	1400.00	320.00	100.00	**********	**********
69/ 8/11 1700	0.00	0.50	**********	**********	20.00-	700.00	40.00	80.00	**********	**********
69/ 9/19 1210	0.00	0.00	**********	**********	70.00	700.00	10.00-	110.00	**********	**********
69/10/16 1150	0.10	0.30	**********	**********	20.00-	1000.00	10.00-	90.00	**********	**********
ARITHMETIC MEAN	0.05	0.41	0.00	0.00	28.33	883.33	71.66	96.66	0.00	0.00
STD. DEVIATION	0.7596	0.5419	0.0000	0.0000	20.4124	435.5079	128.1273	10.3264	0.0000	0.0000
NO. OF VALUES	6	6	0	0	6	6	6	6	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 293012.
WOODY CR. ABOVE COOKE CITY
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	925. MGNSIUM MG.DISS MG/L	1009. BARIUM BA.DISS UG/L	1049. LEAD PB.DISS UG/L	720. CYANIDE CN MG/L	1000. ARSENIC AS.DISS UG/L	32730. PHENOLS UG/L	500. RESIDUE TOTAL MG/L	515. RESIDUE TOT FLT MG/L	22703. U-NAT DISOLVED UG/L
69/ 5/17 0	3.90 **********		200.00**********		10.00**********	**********	**********	73.00	**********
69/ 6/17 0	2.50 **********		200.00**********		10.00**********	**********	**********	42.00	**********
69/ 7/16 0	21.00 **********		200.00**********	**********	**********	**********	**********	48.00	**********
69/ 8/15 1200	3.30 **********		200.00**********	**********	**********	**********	**********	111.00	**********
69/ 9/19 1215	4.60 **********		200.00-	0.03	**********	**********	**********	75.00	**********
69/10/16 1150	9.20 **********		200.00-	0.00	**********	**********	**********	76.00	**********
ARITHMETIC MEAN	6.75	0.00	200.00	0.01	10.00	0.00	0.00	70.00	0.00
STD. DEVIATION	7.0452	0.0000	0.1292	0.0212	0.0055	0.0000	0.0000	25.2520	0.0000
NO. OF VALUES	6	0	6	2	2	0	0	6	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 11/16/70

STATION 2930130
SODA BUTTE CR. BELOW COOKE CITY
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	10: WATER TEMP CENT	20: AIR TEMP CENT	3: VSAMPLOC DEPTH FEET	60: STREAM FLOW CUFT/SEC	300: DO MG/L	400: PH S U	403: LAB PH SU	95: CNDUCTVY AT 25C MICROMHO	70: TURB JKSN JU	410: T ALK CACO3 MG/L
69/ 5/17 0	**********	**********	**********	**********	**********	7.60	**********	140.00	15.00	59.00
69/ 6/17 0	**********	**********	**********	**********	**********	6.80	**********	130.00	**********	59.00
69/ 7/16 0	**********	**********	**********	**********	**********	7.40	**********	126.00	**********	55.00
69/ 8/19 1430	**********	**********	**********	**********	**********	7.70	**********	101.00	**********	73.00
69/ 9/19 1515	**********	**********	**********	**********	**********	7.70	**********	119.00	**********	43.00
69/10/16 1405	**********	**********	**********	**********	**********	7.60	**********	210.00	**********	67.00
ARITHMETIC MEAN	0.00	0.00	0.00	0.00	0.00	7.50	0.00	151.00	15.00	56.00
STD. DEVIATION	0.0000	0.0000	0.0000	0.0000	0.0000	0.3465	0.0000	36.3099	0.0000	13.2515
NO. OF VALUES	0	0	0	0	0	4	0	4	1	4

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 11/16/70

STATION 2280138
SODA BUTTE CR. BELOW COOKE CITY
MISSOURI RIVER
YELLOWSTONE RIVER

DATE	TIME	930: SODIUM NA:DISS MG/L	935: PTSSIUM K:DISS MG/L	950: FLUORIDE F:DISS MG/L	1020: BORON B:DISS UG/L	1040: COPPER CU UG/L	1045: IRON TOTAL UG/L	1055: MANGNESE MN UG/L	1090: ZINC ZN:DISS UG/L	1145: SELENIUM SE:DISS UG/L	9501: RA-226 DISOLVED PC/L
69/ 5/17	0	3.00	0.60	**********	**********	30.00	2480.00	30.00	100.00	**********	**********
69/ 6/17	0	3.00	0.30	**********	**********	20.00-	700.00	30.00	100.00	**********	**********
69/ 7/30	0	4.20	0.70	**********	**********	20.00-	4200.00	140.00	100.00	**********	**********
69/ 8/15	1430	4.60	0.60	**********	**********	20.00-	900.00	100.00	100.00	**********	**********
69/ 9/19	1815	4.90	1.00	**********	**********	40.00	16000.00	300.00	100.00	**********	**********
69/10/16	1405	6.30	0.60	**********	**********	20.00-	1500.00	60.00	100.00	**********	**********
ARITHMETIC MEAN		4.33	0.80	0.00	0.00	28.33	4263.33	110.00	100.00	0.00	0.00
STD. DEVIATION		1.2516	0.5233	0.0000	0.0000	16.0208	5879.9277	102.3719	0.1071	0.0000	0.0000
NO. OF VALUES		6	6	0	0	6	6	6	6	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 2B3013.
SODA BUTTE CR. BELOW COOKE CITY
MISSOURI RIVER
YELLOWSTONE RIVER

DATE	TIME	940. CHLORIDE CL MG/L	945. SULFATE SO4 MG/L	310. BOD 2 DAY MG/L	310. BOD 5 DAY MG/L	610. AMMONIA NH3-N MG/L	625. TOT KJEL N MG/L	630. NO2&NO3 N MG/L	665. PHOS-T P-WET MG/L	70507. PHOS-T ORTHO MG/L-P	915. CALCIUM CA.DISS MG/L
69/ 5/17	0	0.40	19.00	**********	**********	**********	**********	**********	0.07	0.02	20.00
69/ 6/17	0	0.00	21.00	**********	**********	**********	**********	**********	0.05	0.02	16.00
69/ 7/16	0	0.30	6.00	**********	**********	**********	**********	**********	0.27	0.03	17.00
69/ 8/15	1430	**********	19.00	**********	**********	**********	**********	**********	0.05	0.05	29.00
69/ 9/19	1515	2.60	13.00	**********	**********	**********	**********	**********	0.61	0.06	17.00
69/10/16	1405	0.00	25.00	**********	**********	**********	**********	**********	0.05	**********	23.00
ARITHMETIC MEAN		0.66	14.50	0.00	0.00	0.00	0.00	0.00	0.18	0.04	19.66
STD. DEVIATION		1.0990	6.6858	0.0000	0.0000	0.0000	0.0000	0.0000	0.2261	0.0254	3.6697
NO. OF VALUES		5	6	0	0	0	0	0	6	5	6

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 11/16/70

STATION 293013.
SODA BUTTE CR. BELOW COOKE CITY
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME		925. MAGNESIUM MG.DISS MG/L	1005. BARIUM BA.DISS UG/L	1049. LEAD PB.DISS UG/L	720. CYANIDE CN MG/L	1000. ARSENIC AS.DISS UG/L	32730. PHENOLS UG/L	500. RESIDUE TOTAL MG/L	515. RESIDUE TOT FLT MG/L	22703. U-NAT DISOLVED UG/L
69/ 5/17	C	9.70	**********	200.00-**********		10.00	**********	**********	96.00	**********
69/ 6/17	C	3.80	**********	200.00-**********		10.00-	**********	**********	66.00	**********
69/ 7/16	C	9.00	**********	200.00-**********	**********	**********	**********	**********	64.00	**********
69/ 8/15 1430		6.90	**********	200.00-**********	**********	**********	**********	**********	107.00	**********
69/ 9/19 1315		21.00	**********	200.00-	0.02	**********	**********	**********	71.00	**********
69/12/16 1405		8.30	**********	200.00-	0.00	**********	**********	**********	108.00	**********
ARITHMETIC MEAN		9.06	0.00	200.00	0.01	10.00	0.00	0.00	85.33	0.00
STD. DEVIATION		6.1206	0.0000	0.1292	0.0141	0.0055	0.0000	0.0000	20.6663	0.0000
NO. OF VALUES		6	0	6	2	2	0	0	6	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 295014.
YELLOWSTONE R. BELOW GARDINER
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	10. WATER TEMP CENT	20. AIR TEMP CENT	3. VSAMPLOC DEPTH FEET	60. STREAM FLOW CUFT/SEC	300. DO MG/L	400. PH S U	403. LAB PH SU	95. CNDUCTVY AT 25C MICROMHO	70. TURB JKSN JU	410. T ALK CACO3 MG/L
70/ 5/ 7 1400	7.00	12.00	**********	1880.00	8.80	7.50	7.70	188.00	5.50	41.00
70/ 5/18 930	6.00	11.00	**********	1540.00	**********	**********	**********	**********	**********	**********
70/ 5/14 1145	8.00	7.00	**********	1470.00	**********	**********	8.10	**********	**********	**********
70/ 5/15 1120	12.00	19.00	**********	1500.00	**********	**********	**********	**********	**********	**********
70/ 5/16 845	10.00	11.00	**********	1919.99	**********	**********	7.80	**********	**********	**********
70/ 5/17 700	7.00	11.00	**********	3160.00	**********	**********	**********	**********	**********	**********
70/ 5/24 750	5.50	9.00	**********	8700.00	10.00	6.80	7.50	104.00	17.00	40.00
70/ 7/22 1250	15.50	23.50	**********	7010.00	8.40	7.40	7.70	122.00	4.60	41.00
70/ 7/25 1100	16.50	26.00	**********	6170.00	**********	**********	**********	**********	**********	**********
70/ 7/26 805	16.50	13.00	**********	6000.00	**********	**********	7.60	**********	4.30	41.00
70/ 7/27 1100	16.50	23.00	**********	5840.00	**********	**********	**********	**********	**********	**********
70/ 7/28 830	16.00	17.00	**********	5739.99	**********	**********	7.50	**********	2.80	41.00
70/ 7/29 820	15.00	14.50	**********	5739.99	**********	**********	**********	**********	**********	**********
70/ 8/ 1 1400	20.00	32.00	**********	5129.99	8.60	7.90	7.30	138.00	0.90	43.00
ARITHMETIC MEAN	12.39	16.35	0.00	4414.28	8.95	7.40	7.65	138.00	5.81	44.50
STD. DEVIATION	4.7400	7.3469	0.0000	2424.2836	0.7188	0.4546	0.2392	36.1110	5.6989	8.1677
NO. OF VALUES	14	14	0	14	4	4	8	4	4	4

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 11/16/70

STATION 2930140
YELLOWSTONE R. BELOW GARDINER
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	940: CHLORIDE CL MG/L	945: SULFATE SO4 MG/L	304: BOD 2 DAY MG/L	310: BOD 5 DAY MG/L	610: AMMONIA NH3-N MG/L	625: TOT KJEL N MG/L	630: NO2&NO3 N MG/L	665: PHOS-T P-WET MG/L	70507: PHOS-T ORTHO MG/L-P	915: CALCIUM CA:DISS MG/L
70/ 5/ 7 1400	11.00	38.00	**********	**********	0.08	0.31	0.17	0.12	0.04	13.00
70/ 5/14 1145	**********	**********	1.60	2.10	**********	**********	**********	**********	**********	**********
70/ 5/16 845	**********	**********	1.20	1.20	**********	**********	**********	**********	**********	**********
70/ 5/24 750	3.00	16.00	**********	**********	0.04	0.17	0.06	0.03	0.01	9.80
70/ 7/22 1250	5.00	12.00	**********	**********	0.01	0.14	0.04	0.05	0.02	10.00
70/ 7/26 805	**********	**********	0.90	1.20	**********	**********	**********	**********	**********	**********
70/ 7/28 830	**********	**********	0.40	1.00	**********	**********	**********	**********	**********	**********
70/ 8/ 1 1400	6.00	14.00	**********	**********	0.01	0.10	0.05	0.05	0.02	8.80
ARITHMETIC MEAN	6.25	20.00	1.07	1.37	0.03	0.18	0.08	0.06	0.02	10.40
STD. DEVIATION	3.4034	12.1105	0.5852	0.4924	0.0331	0.0912	0.0605	0.0394	0.0142	1.8110
NO. OF VALUES	4	4	4	4	4	4	4	4	4	4

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 2920104
YELLOWSTONE R. BELOW GARDINER
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	930. SODIUM NA.DISS MG/L	935. POTASSIUM K.DISS MG/L	950. FLUORIDE F.DISS MG/L	1020. BORON B.DISS UG/L	1040. COPPER CU UG/L	1045. IRON TOTAL UG/L	1055. MANGANESE MN UG/L	1090. ZINC ZN.DISS UG/L	1145. SELENIUM SE.DISS UG/L	9503. RA-226 DISSOLVED PC/L
70/ 5/ 7 1400	17.00	3.60	0.90	**********	0.00+	1300.00	8.00	0.00+**********	**********	**********
70/ 5/24 750	6.10	1.70	0.20	**********	0.00+	1400.00	9.00	0.00+**********	**********	**********
70/ 7/22 1250	9.50	2.70	0.50	**********	0.00+	620.00	2.00	0.00+**********	**********	**********
70/ 8/ 1 1400	11.00	2.70	0.40	**********	0.00+	220.00	0.00+	0.00+**********	**********	**********
ARITHMETIC MEAN	10.90	2.72	0.50	0.00	0.00	884.99	4.00	0.00	0.00	0.00
STD. DEVIATION	4.8541	0.8578	0.2943	0.0000	0.0000	562.7012	3.3665	0.0000	0.0000	0.0000
NO. OF VALUES	4	4	4	0	4	4	4	4	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA 11/16/70

STATION 293014
YELLOWSTONE R. BELOW GARDINER
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	925 MAGNESIUM MG,DISS MG/L	1005 BARIUM BA,DISS UG/L	1049 LEAD PB,DISS UG/L	720 CYANIDE CN MG/L	1000 ARSENIC AS,DISS UG/L	32730 PHENOLS UG/L	500 RESIDUE TOTAL MG/L	515 RESIDUE TOT FLT MG/L	22703 U-NAT DISOLVED UG/L
70/ 5/ 7 1400	5.10	0.00+	0.00+	0.00+++++++++		2.20	162.00	139.00	*********
70/ 5/24 750	3.90	0.00+	0.00+	0.00+++++++++		0.70	125.00	96.00	*********
70/ 7/22 1250	3.80	0.00+	0.00+++++++++	*********	*********		94.00	69.00	*********
70/ 8/ 1 1400	3.70	0.00+	0.00+++++++++	*********	*********		148.00	107.00	*********
ARITHMETIC MEAN	4.02	0.00	0.00	0.00	0.00	1.45	137.25	107.75	0.00
STD. DEVIATION	0.7274	0.0000	0.0000	0.0000	0.0000	1.0606	34.5387	37.7127	0.0000
NO. OF VALUES	4	4	4	2	0	2	4	4	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM-BACT. 11/16/70

STATION 29301.
YELLOWSTONE R. BELOW GARDINER
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	955. SILICA SIO2 MG/L	680. T ORG C C MG/L	38260. MBAS MG/L	31501. COLIFORM IMEDEMDO MF/100ML	31616. FEC COLI MF-C44.5 MF/100ML	31673. STPCOCCI KF AGR MF/100ML
70/ 5/ 7 1400	**********	19.00	**********	**********	**********	**********
70/ 5/13 930	**********	**********	**********	200.00	76.00	**********
70/ 5/14 1145	**********	**********	**********	70.00	61.00	**********
70/ 5/15 1120	**********	**********	**********	64.00	36.00	**********
70/ 5/16 845	**********	**********	**********	55.00	52.00	**********
70/ 5/17 700	**********	**********	**********	150.00	50.00	**********
70/ 5/24 750	**********	15.00	**********	**********	**********	**********
70/ 7/22 1250	16.00	**********	**********	**********	**********	**********
70/ 7/25 1100	**********	**********	**********	**********	120.00	65.00
70/ 7/26 805	**********	**********	**********	**********	34.00	44.00
70/ 7/27 1100	**********	**********	**********	**********	46.00	70.00
70/ 7/28 810	**********	**********	**********	**********	24.00	30.00
70/ 7/29 820	**********	**********	**********	**********	40.00	100.00
70/ 8/ 1 1400	15.00	11.00	**********	**********	**********	**********
ARITHMETIC MEAN	15.50	15.00	0.00	107.60	53.90	61.60
STD. DEVIATION	0.7071	4.0000	0.0000	64.0639	27.4733	26.7619
NO. OF VALUES	2	3	0	5	10	5

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA, 11/16/70

STATION 295019, YELLOWSTONE PARK AT GARDINER
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	10, WATER TEMP CENT	20, AIR TEMP CENT	3, VSAMPLOC DEPTH FEET	60, STREAM FLOW CUFT/SEC	300, DO MG/L	400, PH S U	403, LAB PH SU	95, CNDUCTVY AT 25C MICROMHO	70, TURB JKSN JU	410, T ALK CACO3 MG/L
70/ 5/ 7 1340	7.00	12.00	*********	*********	9.20	7.40	7.70	161.00	11.00	94.00
70/ 5/24 815	5.50	9.00	*********	*********	10.40	6.90	7.40	92.00	16.00	36.00
70/ 7/22 1235	15.50	21.00	*********	*********	8.40	7.30	7.50	100.00	4.20	57.00
70/ 8/ 1 1340	20.00	32.00	*********	*********	8.40	8.10	7.20	104.00	1.00	57.00
ARITHMETIC MEAN	12.00	18.50	0.00	0.00	9.10	7.42	7.45	117.25	8.05	61.00
STD. DEVIATION	6.9161	10.3440	0.0000	0.0000	0.9452	0.4991	0.2082	30.1262	6.7436	8.6795
NO. OF VALUES	4	4	0	0	4	4	4	4	4	4

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 11/16/70

STATION 2930150.
YELLOWSTONE PARK AT GARDINER
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	940. CHLORIDE CL MG/L	945. SULFATE SO4 MG/L	304. BOD 2 DAY MG/L	310. BOD 5 DAY MG/L	610. AMMONIA NH3-N MG/L	625. TOT KJEL N MG/L	630. NO2&NO3 N MG/L	665. PHOS-T P-WET MG/L	70507. PHOS-T ORTHO MG/L-P	919. CALCIUM CA,DISS MG/L
70/ 5/ 7 1340	8.00	33.00 **********	**********		0.12	0.30	0.12	0.13	0.03	12.00
70/ 5/26 815	3.00	14.00 **********	**********		0.04	0.10	0.06	0.02	0.00	9.00
70/ 7/22 1235	4.00	11.00 **********	**********		0.04	0.14	0.03	0.03	0.02	7.70
70/ 8/ 1 1340	9.00	10.00 **********	**********		0.00+	0.13	0.05	0.20	0.05	6.50
ARITHMETIC MEAN	5.00	17.00	0.00	0.00	0.05	0.16	0.06	0.09	0.02	8.80
STD. DEVIATION	2.1602	10.8012	0.0000	0.0000	0.0505	0.0899	0.0387	0.0858	0.0184	2.3650
NO. OF VALUES	4	4	0	0	4	4	4	4	4	4

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 11/16/70

STATION 2930194
YELLOWSTONE PARK AT GARDINER
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	9208 SODIUM NA:DISS MG/L	9238 PTSSIUM K:DISS MG/L	9308 FLUORIDE F:DISS MG/L	1020: BORON B:DISS UG/L	1040: COPPER CU UG/L	1045: IRON TOTAL UG/L	1055: MANGANESE MN UG/L	1090: ZINC ZN:DISS UG/L	1145: SELENIUM SE:DISS UG/L	9503: RA-226 DISOLVED PC/L
70/ 5/ 7 1340	16.00	3.40	0.70	210.00	0.00+	1800.00	100.00	**********	0.00+	0.03
70/ 8/24 815	9.80	1.00	0.20	**********	0.00+	180.00	3.00	0.00+**********	**********	
70/ 7/22 1225	8.00	2.40	0.30	150.00	3.00+	360.00	0.00+	0.00+	0.00+**********	
70/ 8/ 1 1540	11.00	2.30	0.30	0.17	0.00+	0.24	0.00+	0.00+	0.00+**********	
ARITHMETIC MEAN	10.20	2.32	0.47	120.05	0.00	585.09	25.75	0.00	0.00	0.03
STD. DEVIATION	4.4151	0.9912	0.2061	106.0721	0.0000	823.1674	49.5201	0.0000	0.0000	0.0000
NO. OF VALUES	4	4	4	3	4	4	4	3	3	1

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 11/10/70

STATION 2090150
YELLOWSTONE PARK AT GARDINER
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	929. HARDNESS MG/L CA,MG	1005. BARIUM UG/L BA,DISS	1049. LEAD UG/L PB,DISS	720. CYANIDE MG/L CN	1000. ARSENIC UG/L AS,DISS	32730. PHENOLS UG/L	500. RESIDUE TOTAL MG/L	515. RESIDUE TOT FLT MG/L	22703. URANI DISSOLVED UG/L
70/ 6/ 7 1340	3.40	0.000	0.00	**********	4.00	**********	163.00	142.00	0.30
70/ 6/24 815	3.38	0.000	0.00	**********	**********	**********	143.00	80.00	**********
70/ 7/22 1235	3.38	0.000	0.00	**********	2.00	**********	81.00	79.00	**********
70/ 8/ 3 1340	3.13	0.000	0.00	**********	130.00	**********	**********	**********	**********
ARITHMETIC MEAN	3.37	0.00	0.00	0.00	45.33	0.00	128.66	100.33	0.30
STD. DEVIATION	0.2217	0.0000	0.0000	0.0000	73.3302	0.0000	42.2596	36.0878	0.0000
NO. OF VALUES	4	4	4	0	3	0	3	3	1

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM-BACT. 11/16/70

STATION 293013.
YELLOWSTONE PARK AT GARDINER
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	955. SILICA SIO2 MG/L	680. T ORG C C MG/L	28260. MBAS MG/L	31501. COLIFORM INMEDENDO MF/100ML	31616. FEC COLI MF-C44.5 MF/100ML	31673. STPCOCCI KF AGR MF/100ML
70/ 5/ 7 1340	**********	14.00	0.00	**********	**********	**********
70/ 5/24 815	**********	10.00	**********	**********	**********	**********
70/ 7/22 1235	14.00	10.00	0.00	**********	**********	**********
70/ 8/ 1 1340	16.00	12.00	**********	**********	**********	**********
ARITHMETIC MEAN	15.00	11.50	0.00	0.00	0.00	0.00
STD. DEVIATION	1.4142	1.9148	0.0000	0.0000	0.0000	0.0000
NO. OF VALUES	2	4	2	0	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 11/16/70

STATION 298017.
GALLATIN R. AT US-191 CROSSING
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	10. WATER TEMP CENT	20. AIR TEMP CENT	3. VSAMPLOC DEPTH FEET	60. STREAM FLOW CU/FT/SEC	300. DO MG/L	400. PH S U	403. LAB PH SU	95. CNDUCTVY AT 25C MICROMHO	70. TURB JKSN JU	410. T ALK CACO3 MG/L
70/ 7/17 1448	16.00	28.00	**********	238.00	6.50	8.10	8.10	259.00	1.00	106.00
70/ 7/30 1345	13.00	19.00	**********	131.00	8.60	8.40	8.10	280.00	0.90	111.00
ARITHMETIC MEAN	14.50	23.50	0.00	184.50	7.55	8.25	8.10	269.50	0.95	108.50
STD. DEVIATION	2.1213	6.3639	0.0000	75.6604	1.4849	0.2121	0.0055	14.8502	0.0707	3.5356
NO. OF VALUES	2	2	0	2	2	2	2	2	2	2

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 11/16/70

STATION 2488017.
GALLATIN R. AT US-191 CROSSING
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	940. CHLORIDE CL MG/L	945. SULFATE SO4 MG/L	304. BOD 2 DAY MG/L	310. BOD 5 DAY MG/L	610. AMMONIA NH3-N MG/L	625. TOT KJEL N MG/L	630. NO2&NO3 N MG/L	665. PHOS-T P-WET MG/L	70507. PHOS-T ORTHO MG/L-P	915. CALCIUM CA.DISS MG/L
70/ 7/17 1440	0.00+	28.00	**********	**********	0.02	0.27	0.01	0.03	0.02	19.00
70/ 7/30 1345	0.50	35.00	**********	**********	0.00+	0.00+	0.01	0.13	0.02	38.00
ARITHMETIC MEAN	0.25	31.50	0.00	0.00	0.01	0.13	0.01	0.08	0.02	28.50
STD. DEVIATION	0.3535	4.9497	0.0000	0.0000	0.0141	0.1909	0.0000	0.0707	0.0000	13.4350
NO. OF VALUES	2	2	0	0	2	2	2	2	2	2

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 11/16/79

STATION 2936170
GALLATIN R. AT US-191 CROSSING
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	930: SODIUM NA,DISS MG/L	929: PTSSIUM K,DISS MG/L	950: FLUORIDE F,DISS MG/L	1020: BORON B,DISS UG/L	1040: COPPER CU UG/L	1045: IRON TOTAL UG/L	1055: MANGANESE MN UG/L	1090: ZINC ZN,DISS UG/L	1145: SELENIUM SE,DISS UG/L	9503: RA-226 DISOLVED PC/L
78/ 7/17 1448	1.80	1.30	0.10	**********	0.00+	180.00	0.00+	30.00	**********	**********
78/ 7/30 1345	1.70	0.70	0.20	**********	0.00+	0.00+	0.00+	0.00+	**********	**********
ARITHMETIC MEAN	1.75	1.00	0.15	0.00	0.00	90.00	0.00	15.00	0.00	0.00
STD. DEVIATION	0.0707	0.4242	0.0707	0.0000	0.0000	127.2790	0.0000	21.2131	0.0000	0.0000
NO. OF VALUES	2	2	2	0	2	2	2	2	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 293017.
GALLATIN R. AT US-191 CROSSING
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	925. MGNESIUM MG.DISS MG/L	1005. BARIUM BA.DISS UG/L	1049. LEAD PB.DISS UG/L	720. CYANIDE CN MG/L	1000. ARSENIC AS.DISS UG/L	32730. PHENOLS UG/L	500. RESIDUE TOTAL MG/L	515. RESIDUE TOT FLT MG/L	22703. U-NAT DISOLVED UG/L
70/ 7/17 1445	6.60	0.00+	0.00	**********	**********	**********	237.00	190.00	**********
70/ 7/30 1345	11.80	0.00+	0.00	**********	**********	**********	**********	**********	**********
ARITHMETIC MEAN	9.20	0.00	0.00	0.00	0.00	0.00	237.00	190.00	0.00
STD. DEVIATION	3.6769	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NO. OF VALUES	2	2	2	0	0	0	1	1	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM-BACT. 11/16/70

STATION 293017.
GALLATIN R. AT US-191 CROSSING
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	955. SILICA SIO2 MG/L	680. T ORG C C MG/L	38260. MBAS MG/L	31501. COLIFORM IMEDIATO MF/100ML	31616. FEC COLI MF-C44.5 MF/100ML	31673. STPCOCCI KF AGR MF/100ML
70/ 7/17 1445	140.00	29.00	**********	**********	**********	**********
70/ 7/30 1345	17.00	26.00	**********	**********	**********	**********
ARITHMETIC MEAN	78.50	27.50	0.00	0.00	0.00	0.00
STD. DEVIATION	86.9760	2.1213	0.0000	0.0000	0.0000	0.0000
NO. OF VALUES	2	2	0	0	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA 11/16/70

STATION 293010.
GALLATIN R. AT WEST PARK BOUND.
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	10. WATER TEMP CENT	20. AIR TEMP CENT	3. YSAMPLOC DEPTH FEET	60. STREAM FLOW CUFT/SEC	300. DO MG/L	400. PH S U	403. LAB PH SU	99. CNDUCTVY AT 25C MICROMHO	70. TURB JKSN JU	410. T ALK CACO3 MG/L
70/ 5/ 8 1515	5.00	4.00	**********	**********	9.60	8.30	9.10	376.00	0.60	139.00
70/ 5/18 1040	4.00	6.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 5/19 850	2.00	3.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 5/20 856	1.00	7.20	**********	**********	**********	**********	7.30	**********	**********	**********
70/ 5/21 1037	3.00	4.00	**********	**********	**********	**********	7.90	**********	**********	**********
70/ 5/22 1035	4.00	7.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 5/23 1410	3.00	6.00	**********	**********	9.70	7.90	7.80	179.00	9.00	76.00
70/ 7/17 1400	14.00	28.00	**********	**********	8.70	7.90	8.10	221.00	0.80	93.00
70/ 7/30 1320	9.00	14.50	**********	**********	9.20	7.40	7.20	63.00	0.70	29.00
70/ 8/16 830	5.00	9.50	**********	**********	**********	**********	**********	**********	**********	**********
70/ 8/17 945	7.00	16.00	**********	**********	**********	**********	8.00	**********	**********	101.00
70/ 8/18 850	5.00	11.00	**********	180.00	**********	**********	**********	**********	**********	**********
70/ 8/19 843	4.00	5.00	**********	**********	**********	**********	**********	**********	**********	**********
ARITHMETIC MEAN	5.07	9.30	0.00	180.00	9.30	7.87	7.94	209.75	2.80	87.86
STD. DEVIATION	3.3779	6.1896	0.0000	0.0000	0.4546	0.3686	0.5966	129.4175	4.1592	40.0599
NO. OF VALUES	13	13	0	1	4	4	7	4	4	5

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA, 11/16/70

STATION 2S3018.
GALLATIN R. AT WEST PARK BOUND.
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	940. CHLORIDE CL MG/L	945. SULFATE SO4 MG/L	304. BOD 2 DAY MG/L	310. BOD 5 DAY MG/L	610. AMMONIA NH3-N MG/L	625. TOT KJEL N MG/L	630. NO2&NO3 N MG/L	665. PHOS-T P-WET MG/L	70507. PHOS-T ORTHO MG/L-P	915. CALCIUM CA-DISS MG/L
70/ 5/ 6 1515	6.00	84.00	**********	**********	0.02	0.05	0.14	0.02	0.01	80.00
70/ 5/20 856	**********	**********	0.80	1.20	**********	**********	**********	**********	**********	**********
70/ 5/22 1030	**********	**********	1.10	1.40	**********	**********	**********	**********	**********	**********
70/ 5/23 1410	0.50	20.00	**********	**********	0.03	0.17	0.08	0.02	0.00	18.00
70/ 7/17 1400	0.10	24.00	**********	**********	0.01	0.71	0.01	0.03	0.02	19.00
70/ 7/30 1320	0.20	6.30	**********	**********	0.80+	0.03	0.01	0.17	0.08	9.60
ARITHMETIC MEAN	2.20	33.57	0.95	1.30	0.02	0.24	0.06	0.06	0.03	28.65
STD. DEVIATION	3.8703	34.4604	0.2121	0.1414	0.0216	0.3193	0.0627	0.0734	0.0325	33.9797
NO. OF VALUES	4	4	2	2	4	4	4	4	4	4

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 11/16/70

STATION 2930185
GALLATIN R. AT WEST PARK BOUND.
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	930. SODIUM NA+DISS MG/L	935. POTASSIUM K+DISS MG/L	950. FLUORIDE F-DISS MG/L	1020. BORON B+DISS UG/L	1040. COPPER CU UG/L	1045. IRON TOTAL UG/L	1055. MANGANESE MN UG/L	1090. ZINC ZN+DISS UG/L	1145. SELENIUM SE+DISS UG/L	9503. RA-226 DISSOLVED PC/L
70/ 5/ 8 1515	1.50	0.70	0.40	0.00	0.00+	0.00+	20.00	20.00	0.00+	0.05
70/ 5/25 1410	23.00	1.50	0.00+	0.00	0.00+	1100.00	100.00	0.00+**********		**********
70/ 7/17 1400	2.00	1.40	0.10	0.00	0.00+	140.00	100.00	0.00+**********		**********
70/ 7/30 1320	3.60	2.00	0.10	0.00	0.00+	0.00+	0.00+	0.00+	0.55+**********	
ARITHMETIC MEAN	7.52	1.40	0.15	0.00	0.00	310.00	55.00	5.00	0.00	0.05
STD. DEVIATION	10.3594	0.5394	0.1732	0.0000	0.0000	550.7847	52.5990	9.9999	0.0000	0.0000
NO. OF VALUES	4	4	4	4	4	4	4	4	2	1

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 11/16/78

STATION 295018.
GALLATIN R. AT WEST PARK BOUND.
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	925. MAGNESIUM MG.DISS MG/L	1005. BARIUM BA.DISS UG/L	1049. LEAD PB.DISS UG/L	720. CYANIDE CK MG/L	1000. ARSENIC AS.DISS UG/L	32730. PHENOLS UG/L	500. RESIDUE TOTAL MG/L	515. RESIDUE TOT FLT MG/L	22703. U-NAT DISOLVED UG/L
70/ 5/ 8 1515	18.00	0.00+	0.00+	0.00+	0.00+	1.90	260.00	257.00	0.10
70/ 5/23 1410	7.00	0.00+	0.00+	0.00+	0.00+	0.90	192.00	99.00	**********
70/ 7/17 1400	0.50	0.00+	0.00**********		10.00 **********		296.00	183.00	**********
70/ 7/30 1320	1.70	0.00+	0.00**********		0.00**********		**********	**********	**********
ARITHMETIC MEAN	9.05	0.00	0.00	0.00	2.50	1.40	249.33	179.66	0.10
STD. DEVIATION	6.7893	0.0000	0.0000	0.0000	4.9999	0.7071	52.6142	79.0327	0.0000
NO. OF VALUES	4	4	4	2	4	2	3	3	1

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM-BACT. 11/16/70

STATION 293018.
GALLATIN R. AT WEST PARK BOUND.
MISSOURI RIVER
YELLOWSTONE RIVER

DATE	TIME	955. SILICA SIO2 MG/L	680. Y ORG C C MG/L	38260. MBAS MG/L	31501. COLIFORM IMEDENDO MF/100ML	31616. FEC COLI MF-C44.5 MF/100ML	31673. STPCOCCI KF AGR MF/100ML
70/ 5/ 8	1515	**********	32.00	0.00	**********	**********	**********
70/ 5/18	1020	**********	**********	**********	260.00	140.00	**********
70/ 5/19	850	**********	**********	**********	260.00	70.00	**********
70/ 5/20	855	**********	**********	**********	30.00	20.00	**********
70/ 5/21	1030	**********	**********	**********	53.00	39.00	**********
70/ 5/22	1035	**********	**********	**********	13.00	10.00	**********
70/ 5/23	1410	**********	19.00	0.02	**********	**********	**********
70/ 7/17	1400	170.00	**********	**********	**********	**********	**********
70/ 7/30	1320	37.00	8.00	0.01	**********	**********	**********
70/ 8/16	930	**********	**********	**********	**********	16.00	220.00
70/ 8/17	945	**********	**********	**********	**********	9.00	13.00
70/ 8/18	855	**********	**********	**********	**********	31.00	26.00
70/ 8/19	840	**********	**********	**********	**********	14.00	16.00
ARITHMETIC MEAN		103.50	19.66	0.01	123.19	38.33	68.75
STD. DEVIATION		94.0451	12.0138	0.0100	129.6847	42.5846	100.9862
NO. OF VALUES		2	3	3	9	9	4

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 2930190.
MADISON RIVER NEAR WEST ENTRANCE
MISSOURI RIVER
YELLOWSTONE RIVER

DATE	TIME	10. WATER TEMP CENT	20. AIR TEMP CENT	3. VSAMPLOC DEPTH FEET	60. STREAM FLOW CUFT/SEC	300. DO MG/L	400. PH S U	403. LAB PH SU	95. CNDUCTVY AT 25C MICROMHO	70. TURB JKSN JU	410. T ALK CACO3 MG/L
70/ 5/ 8	1435	10.00	4.00	**********	543.00	7.90	7.40	8.70	353.00	1.50	95.00
70/ 5/18	955	13.00	16.00	**********	741.00	**********	**********	**********	**********	**********	**********
70/ 5/19	935	11.00	9.00	**********	855.00	**********	**********	**********	**********	**********	**********
70/ 5/20	936	11.00	9.00	**********	865.00	**********	**********	7.40	**********	**********	**********
70/ 5/21	940	12.00	4.00	**********	768.00	**********	**********	**********	**********	**********	**********
70/ 5/22	955	10.00	5.00	**********	795.00	**********	**********	7.60	**********	**********	**********
70/ 5/23	1420	12.00	13.00	**********	995.00	6.20	7.20	7.90	236.00	3.60	57.00
70/ 5/27	1020	9.00	13.00	**********	1300.00	**********	**********	**********	**********	**********	**********
70/ 7/21	1148	20.00	20.00	**********	543.00	7.50	6.90	7.50	400.00	0.60	101.00
70/ 7/30	1930	21.00	24.00	**********	559.00	7.80	8.10	8.00	377.00	0.70	100.00
70/ 8/12	930	17.00	16.00	**********	479.00	**********	**********	8.00	**********	**********	**********
70/ 8/15	1045	18.00	18.00	**********	463.00	**********	**********	8.00	**********	**********	**********
70/ 8/16	855	17.00	14.00	**********	463.00	**********	**********	**********	**********	**********	**********
70/ 8/17	855	17.50	14.00	**********	463.00	**********	**********	8.10	**********	**********	109.00
70/ 8/18	825	16.00	7.00	**********	455.00	**********	**********	**********	**********	**********	**********
70/ 8/19	815	16.00	8.00	**********	455.00	**********	**********	**********	**********	**********	**********
ARITHMETIC MEAN		14.40	12.12	0.00	670.12	7.35	7.40	7.86	341.49	1.65	92.40
STD. DEVIATION		3.8350	5.8977	0.0000	244.9110	0.7852	0.5099	0.4123	72.9046	1.4888	20.4157
NO. OF VALUES		16	16	0	16	4	4	9	4	4	5

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

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PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA, 11/16/70

STATION 2930190.
MADISON RIVER NEAR WEST ENTRANCE
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	940. CHLORIDE CL MG/L	945. SULFATE SO4 MG/L	300. BOD 2 DAY MG/L	310. BOD 5 DAY MG/L	610. AMMONIA NH3-N MG/L	625. TOT KJEL N MG/L	630. NO2&NO3 N MG/L	665. PHOS-T P-WET MG/L	70507. PHOS-T ORTHO MG/L-P	919. CALCIUM CA.DISS MG/L
70/ 9/ 8 1435	46.00	25.00	**********	**********	0.02	0.50	0.00+	0.13	0.12	5.30
70/ 9/20 936	**********	**********	1.00	2.00	**********	**********	**********	**********	**********	**********
70/ 9/22 955	**********	**********	0.60	1.30	**********	**********	**********	**********	**********	**********
70/ 9/23 1420	28.00	18.00	**********	**********	0.01	0.43	0.02	0.02	0.00	7.80
70/ 7/21 1145	46.00	11.00	**********	**********	0.02	0.13	0.00+	0.19	0.16	5.70
70/ 7/30 1930	47.00	12.00	**********	**********	0.00+	0.06	0.00+	0.11	0.13	4.30
70/ 8/12 930	**********	**********	0.40	0.80	**********	**********	**********	**********	**********	**********
ARITHMETIC MEAN	41.75	16.00	0.73	1.36	0.01	0.28	0.00	0.11	0.10	5.77
STD. DEVIATION	9.1788	6.3770	0.3055	0.6027	0.0129	0.2174	0.0100	0.0708	0.0804	1.4726
NO. OF VALUES	4	4	3	3	4	4	4	4	4	4

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CMLN DATA: 11/10/70

STATION 2930190
MADISON RIVER NEAR WEST ENTRANCE
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	930: SODIUM NA:D155 MG/L	935: PTSSIUM K:D155 MG/L	990: FLUORIDE F:D155 MG/L	1020: BORON B:D155 UG/L	1040: COPPER CU UG/L	1045: IRON TOTAL UG/L	1055: MANGANESE MN UG/L	1090: ZINC ZN:D155 UG/L	1145: SELENIUM SE:D155 UG/L	9999: RA-226 DISSLVED PC/L
70/ 5/ 8 1430	84.00	7.72	0.82	610.00	0.00*	330.00	90.00	0.00*	0.00*	0.01*
70/ 5/23 1410	83.00	7.40	0.86	610.00	0.00*	400.00	100.00	0.00*	0.00**********	**********
70/ 7/21 1140	89.00	9.00	0.88	610.00	0.00*	220.00	10.00	0.00*	0.00**********	**********
70/ 7/30 1930	71.00	8.00	0.80	520.00	0.00*	0.00*	0.00*	0.00*	0.00**********	
ARITHMETIC MEAN	81.75	7.72	0.87	512.50	0.00	237.50	50.00	0.00	0.00	0.01
STD. DEVIATION	12.3628	1.0529	1.0206	81.9401	0.0000	179.6986	92.2812	0.0000	0.0000	0.0000
NO. OF VALUES	4	4	4	4	4	4	4	4	2	1

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 11/10/70

STATION 2930190
MADISON RIVER NEAR WEST ENTRANCE
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	925: MAGNESIUM MG:DISS MG/L	1005: BARIUM BA:DISS UG/L	1049: LEAD PB:DISS UG/L	720: CYANIDE CN UG/L	1000: ARSENIC AS:DISS UG/L	32730: PHENOLS UG/L	500: RESIDUE TOTAL MG/L	515: RESIDUE TOT FLT MG/L	22703: U-NAT DISSOLVED UG/L
70/ 5/ 8 1435	0.80	0.00+	0.00+	0.00+	230.00	4.90	289.00	273.00	0.30
70/ 5/29 1420	0.60	0.00+	0.00+	0.00+	170.00	1.30	202.00	153.00	*********
70/ 7/21 1145	0.90	0.00+	0.00+**********		270.00	*********	317.00	244.00	*********
70/ 7/30 1530	0.80	0.00+	0.00+**********		240.00	*********	*********	*********	*********
ARITHMETIC MEAN	0.72	0.00	0.00	0.00	227.50	3.10	269.33	223.33	0.30
STD. DEVIATION	0.1500	0.0000	0.0000	0.0000	41.9328	2.9455	59.9696	62.6128	0.0000
NO. OF VALUES	4	4	4	2	4	2	3	3	1

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM-BACT. 11/16/70

STATION 293019.
MADISON RIVER NEAR WEST ENTRANCE
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	992. SILICA SIO2 MG/L	680. T OHG C C MG/L	38260. MBAS MG/L	31501. COLIFORM IMEDENDO MF/100ML	31616. FEC COLI MF-C44.5 MF/100ML	31673. STPCOCCI KF AGR MF/100ML
70/ 5/ 8 1435	**********	24.00	0.02	**********	**********	**********
70/ 5/18 955	**********	**********	**********	340.00	150.00	**********
70/ 5/19 935	**********	**********	**********	100.00	89.00	**********
70/ 5/20 935	**********	**********	**********	53.00	50.00	**********
70/ 5/21 940	**********	**********	**********	110.00	110.00	**********
70/ 5/22 955	**********	**********	**********	60.00	33.00	**********
70/ 5/23 1420	**********	19.00	**********	**********	**********	**********
70/ 5/27 1020	**********	**********	**********	390.00	280.00	**********
70/ 7/21 1145	87.00	24.00	0.04	**********	**********	**********
70/ 7/30 1530	97.00	24.00	0.00	**********	**********	**********
70/ 8/12 930	**********	**********	**********	**********	5.00	48.00
70/ 8/15 1045	**********	**********	**********	**********	5.00	40.00
70/ 8/16 855	**********	**********	**********	**********	7.00	30.00
70/ 8/17 855	**********	**********	**********	**********	13.00	42.00
70/ 8/18 825	**********	**********	**********	**********	12.00	42.00
70/ 8/19 915	**********	**********	**********	**********	6.00	66.00
ARITHMETIC MEA.	92.00	22.75	0.02	179.49	63.33	48.00
STD. DEVIATION	7.0711	2.5000	0.0200	149.2697	83.9706	9.6333
NO. OF VALUES	2	4	3	8	12	6

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 299020.
BEAR CR MINE SPOIL SPILLS
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	10. WATER TEMP CENT	20. AIR TEMP CENT	3. VSAMPLOC DEPTH FEET	60. STREAM FLOW CUFT/SEC	300. DO MG/L	400. PH S U	403. LAB PH SU	99. CNDUCTVY AT 25C MICROMHO	70. TURB JKSN JU	410. T ALK CACO3 MG/L
70/ 7/22 1330	10.00	17.50	**********	**********	8.40	6.80	7.10	67.00	20.00	32.00
70/ 8/ 1 1430	18.00	32.00	**********	**********	8.20	7.60	7.00	81.00	0.50	38.00
ARITHMETIC MEAN	14.00	24.75	0.00	0.00	8.40	7.20	7.05	74.00	13.25	35.00
STD. DEVIATION	5.6568	10.3530	0.0000	0.0000	0.2829	0.5657	0.0709	9.8995	10.0312	4.2427
NO. OF VALUES	2	2	0	0	2	2	2	2	2	2

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA, 11/16/70

STATION 293020.
BEAR CR MINE SPOIL SPILLS
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	940. CHLORIDE CL MG/L	945. SULFATE SO4 MG/L	304. BOD 2 DAY MG/L	310. BOD 5 DAY MG/L	610. AMMONIA NH3-N MG/L	625. TOT KJEL N MG/L	630. NO2&NO3 N MG/L	665. PHOS-T P-WET MG/L	70507. PHOS-T ORTHO MG/L-P	919. CALCIUM CA-DISS MG/L
70/ 7/22 1330	0.20	16.00	**********	**********	0.00+	0.15	3.38	0.03	0.02	7.80
70/ 8/ 1 1430	0.20	9.40	**********	**********	0.01	0.05	0.01	0.09	0.00+	6.70
ARITHMETIC MEAN	0.20	10.70	0.00	0.00	0.00	0.10	0.04	0.06	0.01	7.25
STD. DEVIATION	0.0001	7.4953	0.0000	0.0000	0.2070	0.0707	0.0494	0.0624	0.0141	0.7778
NO. OF VALUES	2	2	0	0	2	2	2	2	2	2

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 295020.
BEAR CR MINE SPOIL SPILLS
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	930. SODIUM NA.DISS MG/L	935. PTSSIUM K.DISS MG/L	950. FLUORIDE F.DISS MG/L	1020. BORON B.DISS UG/L	1040. COPPER CU UG/L	1045. IRON TOTAL UG/L	1055. MANGNESE MN UG/L	1090. ZINC ZN.DISS UG/L	1149. SELENIUM SE.DISS UG/L	9503. RA-226 DISOLVED PC/L
70/ 7/22 1330	3.30	1.50	0.00+	0.00	0.00+	1500.00	0.00+	0.00+**********		**********
70/ 8/ 1 1430	4.00	1.20	0.10	0.00	0.00+	0.00+	0.00+	0.00+**********		**********
ARITHMETIC MEAN	3.65	1.35	0.05	0.00	0.00	750.00	0.00	0.00	0.00	0.00
STD. DEVIATION	0.4949	0.2121	0.0707	0.0000	0.0000	1060.6586	0.0000	0.0000	0.0000	0.0000
NO. OF VALUES	2	2	2	2	2	2	2	2	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA, 11/16/70

STATION 293020.
BEAR CR MINE SPOIL SPILLS
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	925. MGNSIUM MG.DISS MG/L	1005. BARIUM BA.DISS UG/L	1049. LEAD PB.DISS UG/L	720. CYANIDE CN MG/L	1000. ARSENIC AS.DISS UG/L	32730. PHENOLS UG/L	500. RESIDUE TOTAL MG/L	515. RESIDUE TOT FLT MG/L	22703. URANT DISSOLVED UG/L
70/ 7/22 1330	2.20	0.00+	0.00+**********		0.00+**********		192.00	48.00	**********
70/ 8/ 1 1430	2.80	0.00+	0.00+**********		10.00 **********		241.00	130.00	**********
ARITHMETIC MEAN	2.50	0.00	0.00	0.00	5.00	0.00	216.50	89.00	0.00
STD. DEVIATION	0.4242	0.0000	0.0000	0.0000	7.0710	0.0000	34.6484	57.9828	0.0000
NO. OF VALUES	2	2	2	0	2	0	2	2	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM-BACT, 11/10/70

STATION 2020201
NEAR CR MINE SPOIL SPILLS
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	955: SILICA SI02 MG/L	680: T ORG C C MG/L	39260: HEAT MG/L	31501: COLIFORM IMEDENDO MP/100ML	31616: FEC COLI MF-C44.5 MP/100ML	31673: STPCOCCI KF AGR MP/100ML
70/ 7/22 1330	12.00	9.00	**********	**********	**********	**********
70/ 8/ 5 1430	14.00	9.00	**********	**********	**********	**********
ARITHMETIC MEAN	13.00	9.00	0.00	0.00	0.00	0.00
STD. DEVIATION	1.4142	0.0000	0.0000	0.0000	0.0000	0.0000
NO. OF VALUES	2	2	0	0	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 2956021.
BEAR CR BELOW MINE SPOIL PILES
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	10. WATER TEMP CENT	20. AIR TEMP CENT	3. VSAMPLOC DEPTH FEET	60. STREAM FLOW CUFT/SEC	300. DO MG/L	400. PH S U	403. LAB PH SU	95. CNDUCTVY AT 25C MICROMHO	70. TURB JKSN JU	410. T ALK CACO3 MG/L
70/ 7/22 1545	10.00	17.00	**********	**********	8.90	6.70	7.20	60.00	95.00	28.00
70/ 8/ 1 1500	18.00	32.00	**********	33.40	8.20	7.50	7.00	63.00	0.00	30.00
ARITHMETIC MEAN	14.00	24.50	0.00	33.40	8.55	7.10	7.10	61.50	47.90	29.00
STD. DEVIATION	9.6568	10.6066	0.0000	0.0000	0.4950	0.5657	0.1415	2.1220	66.6093	1.4143
NO. OF VALUES	2	2	0	1	2	2	2	2	2	2

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 11/16/70

STATION 2556311.
BEAR CR BELOW NINE SPOIL PILES
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	940. CHLORIDE CL MG/L	945. SULFATE SO4 MG/L	324. BOD 2 DAY MG/L	310. BOD 5 DAY MG/L	610. AMMONIA NH3-N MG/L	625. TOT KJEL N MG/L	630. NO2&NO3 N MG/L	665. PHOS-T P-WET MG/L	28867. PHOS-T ORTHO MG/L-P	910. CALCIUM CA-DISS MG/L
70/ 7/22 1345	0.40	37.00	**********	**********	0.12	0.26	0.08	0.10	0.06	9.80
70/ 8/ 1 1900	0.30	4.50	**********	**********	0.80+	0.03	0.01	0.16	0.03	9.20
ARITHMETIC MEAN	0.35	20.75	0.00	0.00	0.46	0.19	0.04	0.13	0.04	7.50
STD. DEVIATION	0.0707	22.9809	0.0000	0.0000	0.0848	0.2333	0.0494	0.0424	0.0212	3.2526
NO. OF VALUES	2	2	0	0	2	2	2	2	2	2

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 11/16/72 STATION 293021.

BEAR CR BELOW MINE SPOIL PILES
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	930. SODIUM NA,DISS MG/L	935. PTSSIUM K,DISS MG/L	950. FLUORIDE F,DISS MG/L	1020. BORON B,DISS UG/L	1040. COPPER CU UG/L	1045. IRON TOTAL UG/L	1055. MANGNESE MN UG/L	1090. ZINC ZN,DISS UG/L	1145. SELENIUM SE,DISS UG/L	9503. RA-226 DISOLVED PC/L
70/ 7/22 1340	3.90	5.70	0.00+**********		0.00+	3699.99	450.00	0.00+**********		**********
70/ 8/ 1 1500	2.90	1.20	0.00+	10.00	0.00+	160.00	0.00+	0.00+**********		**********
ARITHMETIC MEAN	3.20	3.45	0.00	10.00	0.00	1929.99	225.00	0.00	0.00	0.00
STD. DEVIATION	0.4242	3.1819	0.0000	0.0000	0.0000	2503.1533	318.1976	0.0000	0.0000	0.0000
NO. OF VALUES	2	2	2	1	2	2	2	2	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 11/16/70

STATION 293021.
BEAR CR BELOW MINE SPOIL PILES
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	925. MAGNESIUM MG.DISS MG/L	1005. BARIUM BA.DISS UG/L	1049. LEAD PB.DISS UG/L	720. CYANIDE CN MG/L	1000. ARSENIC AS.DISS UG/L	32730. PHENOLS UG/L	500. RESIDUE TOTAL MG/L	515. RESIDUE TOT FLT MG/L	22703. U-NAT DISOLVED UG/L
70/ 7/22 1345	2.00	0.00+	0.00**********		30.00 **********		798.00	54.00 **********	
70/ 8/ 1 1500	1.90	0.00+	0.00**********		30.00 **********		129.00	129.00 **********	
ARITHMETIC MEAN	1.95	0.00	0.00	0.00	30.00	0.00	463.50	91.50	0.00
STD. DEVIATION	0.0707	0.0000	0.0000	0.0000	0.0220	0.0000	473.0536	53.0329	0.0000
NO. OF VALUES	2	2	2	0	2	0	2	2	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM-BACT. 11/16/70

STATION 292021.
BEAR CR BELOW MINE SPOIL PILES
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	955. SILICA SIO2 MG/L	680. T ORG C C MG/L	39260. MBAS MG/L	31501. COLIFORM IMEDENDO MF/100ML	31616. FEC COLI MF-C44.5 MF/100ML	31673. STPCOCCI KF AGR MF/100ML
70/ 7/22 1345	19.00	15.00	**********	**********	**********	**********
70/ 8/ 1 1500	18.00	8.00	**********	**********	**********	**********
ARITHMETIC MEAN	18.50	11.50	0.00	0.00	0.00	0.00
STD. DEVIATION	0.7072	4.9497	0.0000	0.0000	0.0000	0.0000
NO. OF VALUES	2	2	0	0	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 571000.
SODA BUTTE CREEK AT PARK BOUN.
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	10. WATER TEMP CENT	20. AIR TEMP CENT	3. VSAMPLOC DEPTH FEET	60. STREAM FLOW CUFT/SEC	300. DO MG/L	400. PH S U	403. LAB PH SU	95. CNDUCTVY AT 25C MICROMHO	76. TURB JKSN JU	410. T ALK CACO3 MG/L
69/ 5/17 0	**********	**********	**********	**********	**********	7.40	**********	132.00	24.00	54.00
69/ 6/17 0	**********	**********	**********	**********	**********	7.60	**********	120.00	**********	49.00
69/ 7/16 0	**********	**********	**********	**********	**********	7.40	**********	92.00	**********	39.00
69/ 8/15 1400	**********	**********	**********	**********	**********	7.10	**********	162.00	**********	74.00
69/ 9/19 1525	**********	**********	**********	**********	**********	7.70	**********	158.00	**********	68.00
69/10/16 1420	**********	**********	**********	**********	**********	7.70	**********	239.00	**********	97.00
70/ 5/ 9 1200	2.00	8.00	**********	**********	10.00	7.90	7.80	188.00	1.60	84.00
70/ 5/13 1110	1.00	6.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 5/14 950	1.00	0.00	**********	**********	**********	**********	7.70	**********	**********	**********
70/ 5/15 935	1.00	4.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 5/16 1125	4.00	20.00	**********	7.40	**********	**********	7.90	**********	**********	**********
70/ 5/17 910	2.00	7.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 5/24 1210	9.00	17.00	**********	136.00	9.20	7.40	7.40	129.00	12.00	58.00
70/ 5/28 930	2.00	5.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 7/22 1019	6.50	11.50	**********	136.00	8.40	7.50	7.70	122.00	2.20	53.00
70/ 7/25 830	5.00	13.50	**********	**********	**********	**********	**********	**********	**********	**********
70/ 7/26 930	6.00	15.00	**********	**********	**********	**********	7.60	**********	2.30	57.00
70/ 7/27 825	5.50	11.00	**********	91.20	**********	**********	**********	**********	**********	**********
70/ 7/28 1020	8.50	19.00	**********	**********	**********	**********	7.80	**********	2.30	78.00
70/ 7/29 1010	7.00	15.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 8/ 2 1345	12.00	25.00	**********	44.30	8.70	8.00	7.70	143.00	1.00	48.00
70/ 8/11 1040	7.00	17.00	**********	**********	**********	**********	7.90	**********	**********	**********
ARITHMETIC MEAN	4.71	12.25	0.00	91.62	9.07	7.63	7.72	148.28	6.94	62.50
STD. DEVIATION	3.1394	6.6297	0.0000	59.3714	0.6994	0.2113	0.1566	48.3460	9.1782	19.1809
NO. OF VALUES	16	16	0	5	4	10	9	16	5	13

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CREW DATE: 11/18/70

STATION 9710000.
/GRA BUTTE CREEK AT PARK BDY.
=/BORAX 01=18
YELLOWSTONE 01=09

DATE	TIME	900. CHLORIDE Cl MG/L	905. SULFATE SO4 MG/L	310. BOD 5 DAY MG/L	315. BOD 5 DAY MG/L	610. AMMONIA (N) MG/L	625. TOT KJEL N MG/L	630. NITRATE N MG/L	665. PHOS-T P MG/L	720(7). PHOS-T (ORTHO) MG/L-P	919. CALCIUM CA=0155 MG/L
69/ 5/17	0	0.10	12.00	**********	**********	**********	**********	**********	0.07	0.03	18.00
69/ 6/17	0	0.00	7.00	**********	**********	**********	**********	**********	0.00	0.03	16.00
69/ 7/16	0	0.20	8.00	**********	**********	**********	**********	**********	0.00	0.03	16.00
69/ 8/18	1600	0.20	15.00	**********	**********	**********	**********	**********	0.01	0.17	16.00
69/ 9/19	1525	0.00	18.00	**********	**********	**********	**********	**********	0.06	0.06	24.00
69/10/16	1620	0.00	19.00	**********	**********	**********	**********	**********	0.21	0.06	22.00
70/ 5/ 9	1200	2.00	22.00	**********	**********	**********	**********	**********	0.06	**********	30.00
70/ 5/14	930	**********	**********	**********	**********	0.00+	0.00+	0.00	0.03	0.02	18.00
70/ 5/16	1125	**********	**********	0.00	0.00	**********	**********	**********	**********	**********	**********
70/ 5/24	1210	0.80	14.00	**********	0.60	**********	**********	**********	**********	**********	**********
70/ 7/22	1015	0.20	11.00	**********	**********	0.03	0.06	0.09	0.02	0.00	19.00
70/ 7/26	930	**********	**********	0.20	**********	0.02	0.15	0.01	0.06	0.04	17.00
70/ 7/28	1020	**********	**********	0.20	0.60	**********	**********	**********	**********	**********	**********
70/ 8/ 2	1345	0.10	13.00	**********	**********	0.01	0.15	0.01	0.05	0.03	16.00
ARITHMETIC MEAN		0.40	13.90	0.67	0.60	0.01	0.09	0.04	0.12	0.04	19.60
STD. DEVIATION		0.6091	4.7714	0.5774	0.0000	0.0129	0.0734	0.0434	0.1791	0.0483	4.5269
NO. OF VALUES		10	10	4	4	4	4	4	10	9	10

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 11/16/70

STATION 9710000.
SODA BUTTE CREEK AT PARK BOUN.
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	930: SODIUM NA:DISS MG/L	935: PTSSIUM K:DISS MG/L	950: FLUORIDE F:DISS MG/L	1020: BORON B:DISS UG/L	1040: COPPER CU UG/L	1045: IRON TOTAL UG/L	1055: MANGANESE MN UG/L	1090: ZINC ZN:DISS UG/L	1145: SELENIUM SE:DISS UG/L	9503: RA-226 DISOLVED PC/L
69/ 5/17 0	3.60	0.60	**********	**********	20.00-	2000.00	90.00	100.00	**********	**********
69/ 6/17 0	3.20	0.50	**********	**********	20.00-	600.00	10.00-	100.00	**********	**********
69/ 7/16 0	4.60	1.70	**********	**********	20.00-	11000.00	270.00	100.00	**********	**********
69/ 8/15 1450	4.30	0.50	**********	**********	20.00-	400.00	10.00-	100.00	**********	**********
69/ 9/10 1525	4.20	1.50	**********	**********	40.00	8300.00	140.00	100.00	**********	**********
69/10/16 1420	5.50	0.60	**********	**********	20.00-	500.00	10.00-	80.00	**********	**********
70/ 5/ 9 1230	4.40	0.50	0.10	**********	0.00+	500.00	0.00+	0.00+	**********	**********
70/ 5/24 1210	3.90	0.60	0.00+	0.00	0.00+	1600.00	40.00	0.00+	**********	**********
70/ 7/22 1015	3.50	0.50	0.90	0.00	0.00+	620.00	0.00+	0.00+	0.00+	**********
70/ 8/ 2 1345	3.70	0.60	0.00+	0.00	0.00+	580.00	50.00	0.00+	0.00+	**********
ARITHMETIC MEAN	4.11	0.74	0.25	0.00	14.00	2609.99	58.00	58.00	0.00	0.00
STD. DEVIATION	0.6773	0.4647	0.4358	0.0000	13.4989	3801.5986	85.4789	50.2880	0.0000	0.0000
NO. OF VALUES	10	10	4	3	10	10	10	10	2	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA 11/18/70

STATION ST1000
SODA BUTTE CREEK AT PARK BOUN
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME		925. MGNSIUM MG,DISS MG/L	1005. BARIUM BA,DISS UG/L	1049. LEAD PB,DISS UG/L	720. CYANIDE CN MG/L	1000. ARSENIC AS,DISS UG/L	32730. PHENOLS UG/L	500. RESIDUE TOTAL MG/L	515. RESIDUE TOT FLT MG/L	22703. U-NAT DISOLVED UG/L
69/ 5/17	C	5.40	**********	0.00+**********		10.00-**********	**********	**********	89.00	**********
69/ 6/17	C	3.90	**********	0.00+**********		10.00-**********	**********	**********	72.00	**********
69/ 7/16	C	16.00	**********	0.00+**********	**********	**********	**********	**********	62.00	**********
69/ 8/15 1450		5.60	**********	0.00+**********	**********	**********	**********	**********	79.00	**********
69/ 9/19 1525		15.00	**********	0.00+	0.02	**********	**********	**********	99.00	**********
69/10/16 1420		8.30	**********	0.00+	0.00	**********	**********	**********	126.00	**********
70/ 5/ 9 1200		3.60	0.00+	0.00+**********	**********	**********	**********	137.00	134.00	**********
70/ 5/24 1210		4.60	0.00+	0.00+**********		0.00+**********		156.00	65.00	**********
70/ 7/22 1015		3.20	0.00+	0.00+**********		0.00+**********		95.00	86.00	**********
70/ 8/ 2 1345		4.40	0.00+	0.00+**********		0.00+**********		119.00	41.00	**********
ARITHMETIC MEAN		6.75	0.00	0.00	0.01	4.00	0.00	125.75	89.30	0.00
STD. DEVIATION		5.0214	0.0000	0.0000	0.0141	5.4772	0.0000	26.4730	28.8048	0.0000
NO. OF VALUES		10	4	10	2	5	0	4	10	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM-BACT. 11/16/70

STATION 471000.
SODA BUTTE CREEK AT PARK BOUN.
MISSOURI RIVER
YELLOWSTONE RIVER

DATE	TIME	00631. NITRATE NO3 MG/L	00680. T ORG C C MG/L	38260. MEAS MG/L	31501. COLIFORM IMEDENDO MF/100ML	31616. FEC COLI MF-C44.5 MF/100ML	31673. STPCOCCI EF AGR MF/100ML
70/ 5/ 9	1200	**********	19.00	**********	**********	**********	**********
70/ 5/13	1110	**********	**********	**********	1.00-	1.00-	**********
70/ 5/14	950	**********	**********	**********	2.00	1.00	**********
70/ 5/15	935	**********	**********	**********	1.00-	1.00-	**********
70/ 5/16	1125	**********	**********	**********	1.00	1.00-	**********
70/ 5/17	910	**********	**********	**********	6.00	6.00	**********
70/ 5/26	1210	**********	17.00	0.00	**********	**********	**********
70/ 5/28	930	**********	**********	**********	40.00	1.00	**********
70/ 7/22	1019	11.00	12.00	0.00	**********	**********	**********
70/ 7/25	850	**********	**********	**********	**********	9.00	2.00
70/ 7/26	930	**********	**********	**********	**********	7.00	10.00
70/ 7/27	825	**********	**********	**********	**********	8.00	6.00
70/ 7/28	1020	**********	**********	**********	**********	4.00	2.00
70/ 7/29	1010	**********	**********	**********	**********	4.00	5.00
70/ 8/ 2	1345	10.00	15.00	0.00	**********	**********	**********
70/ 8/11	1040	**********	**********	**********	**********	3.00	83.00
ARITHMETIC MEAN		10.50	15.75	0.00	8.51	3.84	18.00
STD. DEVIATION		0.7071	2.9860	0.0000	15.5331	2.6069	31.9312
NO. OF VALUES		2	4	1	6	12	6

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 5710010.
SODA BUTTE CREEK NEAR MOUTH
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	940. CHLORIDE CL MG/L	945. SULFATE SO4 MG/L	310. BOD 2 DAY MG/L	315. BOD 5 DAY MG/L	610. AMMONIA NH3-N MG/L	625. TOT KJEL N MG/L	630. NO2&NO3 N MG/L	665. PHOS-T P-WET MG/L	70507. PHOS-T ORTHO MG/L-P	915. CALCIUM CA.DISS MG/L
69/ 5/17 0	0.30	13.00	**********	**********	**********	**********	**********	0.04	0.03	19.00
69/ 6/17 0	0.00	6.00	**********	**********	**********	**********	**********	0.05	0.03	19.00
69/ 7/16 0	1.00	3.00	**********	**********	**********	**********	**********	0.51	0.11	21.00
69/ 8/15 1550	0.00	11.00	**********	**********	**********	**********	**********	0.06	0.06	28.00
69/ 9/19 1555	0.10	11.00	**********	**********	**********	**********	**********	0.04	0.04	30.00
69/10/16 1450	0.00	12.00	**********	**********	**********	**********	**********	0.05	**********	33.00
70/ 5/ 9 1040	0.10	14.00	**********	**********	0.00+	0.00+	0.02	0.04	0.02	43.00
70/ 5/24 1135	0.80	12.00	**********	**********	0.03	0.06	0.08	0.02	0.00	19.00
70/ 7/22 910	0.30	12.00	**********	**********	0.01	0.03	0.00+	0.10	0.04	28.00
70/ 8/ 2 1000	0.30	8.30	**********	**********	0.01	0.01	0.01	0.09	0.06	20.00
ARITHMETIC MEAN	0.29	10.23	0.00	0.00	0.01	0.02	0.02	0.10	0.04	29.20
STD. DEVIATION	0.3478	3.4377	0.0000	0.0000	0.0125	0.0264	0.0359	0.1460	0.0302	8.1349
NO. OF VALUES	12	12	3	3	4	4	4	10	9	10

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 11/18/70

STATION 9710015
SODA BUTTE CREEK NEAR MOUTH
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	930: SODIUM NA:DISS MG/L	935: PTSSIUM K:DISS MG/L	950: FLUORIDE F:DISS MG/L	1020: BORON B:DISS UG/L	1040: COPPER CU UG/L	1045: IRON TOTAL UG/L	1055: MANGANESE MN UG/L	1090: ZINC ZN:DISS UG/L	1145: SELENIUM SE:DISS UG/L	9501: RA-226 DISOLVED PC/L
69/ 5/17 0	2.90	1.00	**********	**********	20.00-	900.00	20.00	100.00	**********	**********
69/ 6/17 0	2.70	0.70	**********	**********	20.00-	400.00	10.00-	100.00	**********	**********
69/ 7/16 0	3.80	2.00	**********	**********	20.00-	7600.00	200.00	100.00	**********	**********
69/ 8/15 1350	3.50	1.10	**********	**********	20.00-	200.00	10.00-	130.00	**********	**********
69/ 9/19 1955	3.20	1.38	**********	**********	30.00	200.00	10.00-	110.00	**********	**********
69/10/16 1450	3.10	1.40	**********	**********	20.00-	300.00	10.00-	100.00	**********	**********
70/ 5/ 9 1040	2.80	1.20	0.10	**********	0.00+	150.00	0.00+	10.00	**********	**********
70/ 5/24 1135	3.30	1.10	0.00+	**********	0.00+	800.00	20.00	0.00	**********	**********
70/ 7/22 910	3.10	1.30	0.00+	**********	0.00+	850.00	10.00	0.00	**********	**********
70/ 8/ 2 1000	3.70	1.50	0.00+	**********	0.00+	340.00	0.00+	0.00	**********	**********
ARITHMETIC MEAN	3.21	1.26	0.02	0.00	13.00	1173.99	29.00	69.00	0.00	0.00
STD. DEVIATION	0.3695	0.3436	0.0500	0.0000	11.5950	2275.9043	60.4519	54.6198	0.0000	0.0000
NO. OF VALUES	10	10	4	0	10	10	10	10	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 971001.
SODA BUTTE CREEK NEAR MOUTH
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	925. MAGNESIUM MG.DISS MG/L	1005. BARIUM BA.DISS UG/L	1049. LEAD PB.DISS UG/L	720. CYANIDE CN MG/L	1000. ARSENIC AS.DISS UG/L	32730. PHENOLS UG/L	500. RESIDUE TOTAL MG/L	515. RESIDUE TOT FLT MG/L	22703. U-NAT DISOLVED UG/L
69/ 5/17 0	6.90	**********	200.00	**********	10.00	**********	**********	99.00	**********
69/ 6/17 0	5.80	**********	200.00	**********	10.00	**********	**********	107.00	**********
69/ 7/16 0	16.00	**********	200.00	**********	**********	**********	**********	89.00	**********
69/ 8/15 1550	8.40	**********	200.00	**********	**********	**********	**********	76.00	**********
69/ 9/19 1555	12.00	**********	200.00	0.03	**********	**********	**********	148.00	**********
69/10/16 1450	11.00	**********	200.00	0.00	**********	**********	**********	138.00	**********
70/ 5/ 9 1040	1.00	0.00+	0.00	**********	**********	**********	159.00	143.00	**********
70/ 5/26 1135	7.50	0.00+	0.00	**********	**********	**********	147.00	71.00	**********
70/ 7/22 910	5.20	0.00+	0.00	**********	**********	**********	229.00	125.00	**********
70/ 8/ 2 1000	7.20	0.00+	0.00	**********	**********	**********	127.00	101.00	**********
ARITHMETIC MEAN	8.10	0.00	120.00	0.01	10.00	0.00	165.50	109.70	0.00
STD. DEVIATION	4.1209	0.0000	103.2794	0.0212	0.0000	0.0000	44.3434	27.6288	0.0000
NO. OF VALUES	10	4	10	2	2	0	4	10	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM-BACT. 11/16/70

STATION 971001.
SODA BUTTE CREEK NEAR MOUTH
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	955: SILICA SIO2 MG/L	680: T ORG C C MG/L	38260: MBAS MG/L	31501: COLIFORM IMEDENDO MF/100ML	31616: FEC COLI MF-C44+5 MF/100ML	31673: STPCOCCI KF AGR MF/100ML
70/ 5/ 9 1040	**********	26.00	**********	**********	**********	**********
70/ 5/26 1135	**********	28.00	**********	**********	**********	**********
70/ 5/28 955	**********	**********	**********	66.00	12.00	**********
70/ 7/22 910	16.00	19.00	**********	**********	**********	**********
70/ 8/ 2 1000	17.00	23.00	**********	**********	**********	**********
70/ 8/11 1115	**********	**********	**********	**********	4.00	9.00
ARITHMETIC MEAN	16.50	22.00	0.00	66.00	8.00	9.00
STD. DEVIATION	0.7071	3.1623	0.0000	0.0000	5.6568	0.0000
NO. OF VALUES	2	4	0	1	2	1

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 5710030.
LAMAR RIVER NEAR MOUTH
MISSOURI RIVER
YELLOWSTONE RIVER

DATE	TIME	10. WATER TEMP CENT	20. AIR TEMP CENT	3. VSAMPLOC DEPTH FEET	60. STREAM FLOW CUFT/SEC	300. DO MG/L	400. PH S U	403. LAB PH SU	95. CNDUCTVY AT 25C MICROMHO	70. TURB JKSN JU	420. T ALK CACO3 MG/L
69/ 5/17	0	**********	**********	**********	**********	**********	7.20	**********	88.00	10.00	37.00
69/ 6/17	0	**********	**********	**********	**********	**********	7.10	**********	90.00	**********	39.00
69/ 7/16	0	**********	**********	**********	**********	**********	7.70	**********	120.00	**********	54.00
70/ 5/ 9	1000	3.00	5.00	**********	**********	10.40	7.40	7.70	144.00	3.50	82.00
70/ 5/13	1030	2.00	8.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 5/14	1035	4.00	8.00	**********	**********	**********	**********	8.00	**********	**********	**********
70/ 5/15	1015	4.00	11.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 5/16	955	4.00	11.00	**********	**********	**********	**********	7.90	**********	**********	**********
70/ 5/17	940	3.00	17.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 5/24	1045	4.00	11.00	**********	**********	10.20	7.20	7.40	93.00	17.00	43.00
70/ 7/22	815	11.00	14.00	**********	**********	9.20	7.50	8.00	122.00	2.00	57.00
70/ 7/25	950	11.50	20.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 7/26	1050	12.50	23.00	**********	**********	**********	**********	7.60	**********	2.10	62.00
70/ 7/27	1010	12.00	18.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 7/28	1115	13.00	23.00	**********	**********	**********	**********	7.00	**********	0.60	49.00
70/ 7/29	1115	12.00	23.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 8/ 2	920	13.00	16.00	**********	**********	8.90	7.90	7.10	149.00	1.50	73.00
ARITHMETIC MEAN		7.78	14.71	0.00	0.00	9.67	7.42	7.68	118.28	5.24	56.88
STD. DEVIATION		4.5813	6.4874	0.0000	0.0000	0.7366	0.2829	0.3137	30.8326	6.0833	15.4864
NO. OF VALUES		14	14	0	0	4	7	8	7	7	9

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 11/16/70

STATION 871003.
LAMAR RIVER NEAR MOUTH
MISSOURI RIVER
YELLOWSTONE RIVER

DATE	TIME	940. CHLORIDE CL MG/L	945. SULFATE SO4 MG/L	304. BOD 2 DAY MG/L	310. BOD 5 DAY MG/L	610. AMMONIA NH3-N MG/L	625. TOT KJEL N MG/L	630. NO2&NO3 N MG/L	668. PHOS-T P-WET MG/L	70507. PHOS-T ORTHO MG/L-P	919. CALCIUM CA,DISS MG/L
69/ 5/17	0	0.70	9.20	**********	**********	**********	**********	**********	**********	**********	**********
69/ 6/17	0	0.00	7.00	**********	**********	**********	**********	**********	**********	**********	**********
69/ 7/16	0	0.60	5.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 5/ 9	1000	3.00	22.00	**********	**********	0.01	0.04	0.04	0.08	0.04	16.00
70/ 5/14	1035	**********	**********	1.00	1.00	**********	**********	**********	**********	**********	**********
70/ 5/16	955	**********	**********	1.10	0.90	**********	**********	**********	**********	**********	**********
70/ 5/24	1045	1.00	14.00	**********	**********	0.03	0.13	0.05	0.02	0.01	8.00
70/ 7/22	815	0.30	8.90	**********	**********	0.01	0.01	0.00+	0.09	0.04	14.00
70/ 7/26	1050	**********	**********	0.40	1.10	**********	**********	**********	**********	**********	**********
70/ 7/28	1115	**********	**********	0.20	0.60	**********	**********	**********	**********	**********	**********
70/ 8/ 2	920	0.30	8.60	**********	**********	0.00+	0.03	0.00+	0.22	0.05	13.00
ARITHMETIC MEAN		0.81	10.67	0.67	0.90	0.01	0.05	0.02	0.10	0.03	12.75
STD. DEVIATION		1.0155	5.6858	0.4425	0.2160	0.0129	0.0531	0.0262	0.0842	0.0176	3.4034
NO. OF VALUES		7	7	4	4	4	4	4	4	4	4

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 11/16/70

STATION 271003.
LAMAR RIVER NEAR MOUTH
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	930. SODIUM NA.DISS MG/L	935. PTSSIUM K.DISS MG/L	950. FLUORIDE F.DISS MG/L	1020. BORON B.DISS UG/L	1040. COPPER CU UG/L	1045. IRON TOTAL UG/L	1055. MANGANESE MN UG/L	1090. ZINC ZN.DISS UG/L	1145. SELENIUM SE.DISS UG/L	9503. RA-226 DISOLVED PC/L
70/ 5/ 9 1000	9.50	1.30	0.20	**********	0.00+	890.00	0.00+	0.00+**********		0.81-
70/ 5/26 1045	9.40	1.20	0.00+**********		0.00+	1800.00	3.00	0.00+**********	**********	
70/ 7/22 815	8.00	1.10	0.10	**********	0.00+	330.00	0.00+	0.00+**********	**********	
70/ 8/ 2 920	7.50	1.50	0.10	**********	0.00+	240.00	0.00+	0.00+**********	**********	
ARITHMETIC MEAN	7.10	1.27	0.10	0.00	0.00	804.99	0.75	0.00	0.00	0.81
STD. DEVIATION	1.8275	0.1707	0.0816	0.0000	0.0000	715.7506	1.4999	0.0000	0.0000	0.0000
NO. OF VALUES	4	4	4	0	4	4	4	4	0	1

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA 11/16/70

STATION 571003
LAMAR RIVER NEAR MOUTH
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	925 MAGNESIUM MG,DISS MG/L	1005 BARIUM BA,DISS UG/L	1049 LEAD PB,DISS UG/L	720 CYANIDE CN MG/L	1000 ARSENIC AS,DISS UG/L	32730 PHENOLS UG/L	900 RESIDUE TOTAL MG/L	919 RESIDUE TOT FLT MG/L	32730 [illegible] DISS,RED UG/L
69/ 9/17 0	**********	**********	**********	**********	**********	**********	**********	75.00	**********
70/ 5/ 9 1000	8.00	0.00+	0.00+	0.00+**********		1.00	130.00	119.00	0.00
70/ 5/24 1045	4.40	0.00+	0.00+	0.00+**********		0.30	130.00	89.00	**********
70/ 7/22 815	3.20	1.20	0.20+**********	**********	**********	**********	81.00	79.00	**********
70/ 8/ 2 920	6.00	0.00+	0.00+**********	**********	**********	**********	140.00	88.00	**********
ARITHMETIC MEAN	5.40	0.29	0.00	0.00	0.00	1.05	120.29	89.60	0.00
STD. DEVIATION	2.0784	0.4899	0.0000	0.0000	0.0000	1.0606	26.5680	17.3437	0.0000
NO. OF VALUES	4	4	4	2	0	2	4	3	1

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM-BACT: 11/16/70

STATION 271003.
LAMAR RIVER NEAR MOUTH
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	955. SILICA SIO2 MG/L	680. T ORG C C MG/L	38260. MBAS MG/L	31501. COLIFORM IMEDENDO MF/100ML	31616. FEC COLI MF-C44.5 MF/100ML	31673. STPCOCCI KF AGR MF/100ML
70/ 5/ 9 1000	**********	22.00	**********	**********	**********	**********
70/ 5/13 1030	**********	**********	**********	9.00	8.00	**********
70/ 5/14 1035	**********	**********	**********	22.00	9.00	**********
70/ 5/15 1015	**********	**********	**********	10.00	4.00	**********
70/ 5/16 955	**********	**********	**********	110.00	46.00	**********
70/ 5/17 940	**********	**********	**********	70.00	68.00	**********
70/ 5/24 1045	**********	13.00	**********	**********	**********	**********
70/ 7/22 815	20.00	15.00	**********	**********	**********	**********
70/ 7/25 950	**********	**********	**********	**********	14.00	28.00
70/ 7/26 1050	**********	**********	**********	**********	13.00	34.00
70/ 7/27 1110	**********	**********	**********	**********	10.00	34.00
70/ 7/28 1115	**********	**********	**********	**********	7.00	15.00
70/ 7/29 1115	**********	**********	**********	**********	36.00	22.00
70/ 8/ 2 920	21.00	19.00	**********	**********	**********	**********
ARITHMETIC MEAN	20.50	17.25	0.00	44.20	21.50	26.60
STD. DEVIATION	0.7071	4.0311	0.0000	44.4319	21.3137	8.1731
NO. OF VALUES	2	4	0	5	10	5

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA, 11/16/70

STATION 5710004.
YELLOWSTONE R. AT FISHING BRIDGE
MISSOURI RIVER
YELLOWSTONE RIVER

DATE	TIME	10. WATER TEMP CENT	20. AIR TEMP CENT	3. VSAMPLOC DEPTH FEET	40. STREAM FLOW CUFT/SEC	300. DO MG/L	400. PH S U	403. LAB PH SU	95. CNDUCTVY AT 25C MICROMHO	70. TURB JKSN JU	410. T ALK CACO3 MG/L
69/ 5/20	0	**********	**********	**********	**********	**********	7.20	**********	94.00	1.30	27.00
69/ 6/17	0	**********	**********	**********	**********	**********	7.20	**********	100.00	**********	28.00
69/ 7/16	0	**********	**********	**********	**********	**********	7.20	**********	96.00	**********	23.00
70/ 5/ 7	810	1.00	4.00	**********	**********	8.80	7.50	7.60	80.00	0.30	34.00
70/ 5/13	1100	0.00	1.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 5/14	1015	3.00	6.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 5/15	955	3.00	4.00	**********	**********	**********	**********	6.90	**********	**********	**********
70/ 5/16	955	2.00	5.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 5/17	1020	3.00	11.00	**********	**********	**********	**********	7.10	**********	**********	**********
70/ 5/24	1640	5.50	19.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 5/26	825	3.00	5.00	**********	**********	9.80	7.30	7.10	69.00	2.80	22.00
70/ 7/19	1425	17.00	24.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 7/30	1145	14.50	14.00	**********	**********	8.00	7.00	7.20	92.00	1.00	31.00
70/ 7/31	1350	16.00	22.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 8/ 1	1015	18.00	22.00	**********	**********	**********	**********	7.70	**********	18.00	30.00
70/ 8/ 1	1200	15.00	18.00	**********	**********	7.80	7.60	7.20	88.00	0.70	28.00
70/ 8/ 2	1155	15.00	18.50	**********	**********	**********	**********	**********	**********	**********	**********
70/ 8/ 3	1150	15.00	18.00	**********	**********	**********	**********	7.20	**********	0.50	29.00
70/ 8/10	945	15.50	14.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 8/15	1025	15.00	16.00	**********	**********	**********	**********	7.70	**********	**********	**********
70/ 8/16	1050	15.00	18.00	**********	**********	**********	**********	7.80	**********	**********	**********
70/ 8/17	650	13.00	5.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 8/18	1145	15.00	24.00	**********	**********	**********	**********	7.40	**********	**********	34.00
70/ 8/19	1125	15.00	20.00	**********	**********	**********	**********	**********	**********	**********	**********
ARITHMETIC MEAN		10.54	13.73	0.00	0.00	8.60	7.28	7.35	87.85	3.51	28.88
STD. DEVIATION		6.5362	7.5657	0.0000	0.0000	0.9092	0.2037	0.3013	11.9225	6.4408	4.3411
NO. OF VALUES		21	21	0	0	4	7	11	7	7	10

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

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PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 11/16/70

STATION 571004.
YELLOWSTONE R. AT FISHING BRIDGE
MISSOURI RIVER
YELLOWSTONE RIVER

DATE	TIME	940. CHLORIDE CL MG/L	945. SULFATE SO4 MG/L	304. BOD 2 DAY MG/L	310. BOD 5 DAY MG/L	610. AMMONIA NH3-N MG/L	625. TOT KJEL N MG/L	630. NO2&NO3 N MG/L	665. PHOS-T P-WET MG/L	70507. PHOS-T ORTHO MG/L-P	915. CALCIUM CA.DISS MG/L
69/ 5/20	0	9.80	9.20	**********	**********	**********	**********	**********	**********	**********	**********
69/ 6/17	0	4.90	8.00	**********	**********	**********	**********	**********	**********	**********	**********
69/ 7/16	0	9.80	10.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 5/ 7	810	6.00	7.00	**********	**********	0.01	0.16	0.01	0.05	0.01	5.30
70/ 5/14	1015	**********	**********	1.00	1.00	**********	**********	**********	**********	**********	**********
70/ 5/16	955	**********	**********	1.00	1.40	**********	**********	**********	**********	**********	**********
70/ 5/24	1440	4.00	9.50	**********	**********	0.02	0.09	0.03	0.02	0.00	2.30
70/ 7/19	1425	3.00	9.00	**********	**********	0.00+	0.14	0.00+	0.03	0.02	5.00
70/ 7/31	1350	**********	**********	0.40	0.60	**********	**********	**********	**********	**********	**********
70/ 8/ 1	1015	3.00	9.00	**********	**********	0.00+	0.13	0.00+	0.12	0.02	4.20
70/ 8/ 2	1155	**********	**********	0.60	1.00	**********	**********	**********	**********	**********	**********
70/ 8/10	945	**********	**********	0.20	0.70	**********	**********	**********	**********	**********	**********
ARITHMETIC MEAN		5.21	8.81	0.64	0.94	0.00	0.13	0.01	0.05	0.01	4.20
STD. DEVIATION		0.7034	1.0040	0.3577	0.3130	0.0095	0.0294	0.0141	0.0450	0.0071	1.3490
NO. OF VALUES		7	7	5	5	4	4	4	4	4	4

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 11/16/70

STATION 5710004
YELLOWSTONE R. AT FISHING BRIDGE
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	930: SODIUM NA,DISS MG/L	935: PTASSIUM K,DISS MG/L	950: FLUORIDE F,DISS MG/L	1020: BORON B,DISS UG/L	1040: COPPER CU UG/L	1049: IRON TOTAL UG/L	1055: MANGNESE MN UG/L	1090: ZINC ZN,DISS UG/L	1145: SELENIUM SE,DISS UG/L	9502: RA-226 DISSOLVED PC/L
70/ 5/ 7 810	10.00	1.70	0.60	**********	0.00+	0.00+	0.00+	0.00+**********		0.01-
70/ 5/24 1440	6.10	1.40	0.40	**********	0.00+	200.00	40.00	0.00+**********	**********	
70/ 7/19 1425	8.00	2.00	0.30	**********	0.00+	120.00	0.00+	0.00+**********	**********	
70/ 8/ 1 1015	8.50	1.60	0.40	**********	0.00+	150.00	0.00+	0.00+**********	**********	
ARITHMETIC MEAN	8.15	1.67	0.47	0.00	0.00	117.50	10.00	0.00	0.00	0.01
STD. DEVIATION	1.6093	0.2500	0.0957	0.0000	0.0000	84.9999	19.9999	0.0000	0.0000	0.0000
NO. OF VALUES	4	4	4	0	4	4	4	0	0	1

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 571004.
YELLOWSTONE R. AT FISHING BRIDGE
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	925. MGNSIUM MG.DISS MG/L	1005. BARIUM BA.DISS UG/L	1049. LEAD PB.DISS UG/L	720. CYANIDE CN MG/L	1000. ARSENIC AS.DISS UG/L	32730. PHENOLS UG/L	500. RESIDUE TOTAL MG/L	515. RESIDUE TOT FLT MG/L	22703. U-NAT DISOLVED UG/L
69/ 5/20 0	**********	**********	**********	**********	**********	**********	**********	72.00	**********
70/ 5/ 7 810	2.30	0.00+	0.00+	0.00+**********		2.30	59.00	59.00	0.00
70/ 5/24 1640	1.60	0.00+	0.00+	0.00+**********		0.60	81.00	57.00	**********
70/ 7/19 1425	2.60	0.00+	0.00+**********		**********	**********	212.00	79.00	**********
70/ 8/ 1 1015	2.30	0.00+	0.00+**********		**********	**********	167.00	106.00	**********
70/ 9/ 9 2150	**********	**********	**********	**********	**********	4.00	**********	**********	**********
ARITHMETIC MEAN	2.20	0.00	0.00	0.00	0.00	2.30	129.75	75.00	0.00
STD. DEVIATION	0.4242	0.0000	0.0000	0.0000	0.0000	1.7000	71.9800	20.5792	0.0000
NO. OF VALUES	4	4	4	2	0	3	4	5	1

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM-BACT. 11/16/70

STATION 471204.
YELLOWSTONE R. AT FISHING BRIDGE
MISSOURI RIVER
YELLOWSTONE RIVER

DATE	TIME	955. SILICA SIO2 MG/L	680. T ORG C C MG/L	38260. MBAS MG/L	31501. COLIFORM IMEDENDO MF/100ML	31616. FEC COLI MF-C44.5 MF/100ML	31673. STPCOCCI KF AGR MF/100ML
70/ 5/ 7	810	**********	9.00	**********	**********	**********	**********
70/ 5/13	1100	**********	**********	**********	1.00-	1.00-	**********
70/ 5/14	1015	**********	**********	**********	1.00-	1.00-	**********
70/ 5/15	900	**********	**********	**********	1.00	1.00-	**********
70/ 5/16	955	**********	**********	**********	1.00-	1.00-	**********
70/ 5/17	1020	**********	**********	**********	1.00	1.00	**********
70/ 5/24	1640	**********	10.00	**********	**********	**********	**********
70/ 5/26	825	**********	**********	**********	82.00	22.00	**********
70/ 7/19	1425	97.00	8.00	**********	**********	**********	**********
70/ 7/30	1145	**********	**********	**********	**********	88.00	66.00
70/ 7/31	1350	**********	**********	**********	**********	2.00	20.00
70/ 8/ 1	1015	8.00	8.00	**********	**********	1.00-	1.00-
70/ 8/ 2	1155	**********	**********	**********	**********	1.00-	1.00-
70/ 8/ 3	C	**********	**********	**********	**********	1.00-	1.00-
70/ 8/10	945	**********	**********	**********	**********	1.00-	3.00
70/ 8/15	1025	**********	**********	**********	**********	1.00	2.00
70/ 8/16	1050	**********	**********	**********	**********	2.00	3.00
70/ 8/17	650	**********	**********	**********	**********	2.00	4.00
70/ 8/18	1145	**********	**********	**********	**********	1.00-	4.00
70/ 8/19	1145	**********	**********	**********	**********	1.00	3.00
ARITHMETIC MEAN		52.50	8.75	0.00	14.50	7.52	9.81
STD. DEVIATION		62.9324	0.9574	0.0000	33.0480	21.3427	19.3949
NO. OF VALUES		2	4	0	6	17	11

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA, 11/16/70

STATION 5710005.
GARDINER RIVER BELOW HAWKOTH
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	10. WATER TEMP CENT	20. AIR TEMP CENT	3. V&AMPLOC DEPTH FEET	60. STREAM FLOW CUFT/SEC	300. DO MG/L	400. PH S U	403. LAB PH SU	95. CNDUCTVY AT 25C MICROMHO	70. TURB JKSN JU	410. T ALK CACO3 MG/L
70/ 5/ 7 1310	13.00	12.00	**********	**********	8.30	7.50	7.90	538.00	3.60	146.00
70/ 5/13 920	10.00	6.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 5/14 1205	15.00	5.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 5/15 1135	15.00	14.00	**********	**********	**********	**********	7.60	**********	**********	**********
70/ 5/16 905	12.00	14.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 5/17 935	10.00	9.00	**********	**********	**********	**********	7.60	**********	**********	**********
70/ 5/24 845	6.50	12.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 5/28 1145	8.00	16.00	**********	**********	9.60	7.10	7.40	290.00	20.00	92.00
70/ 7/22 1215	14.50	18.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 7/25 1120	17.50	27.00	**********	**********	7.90	7.10	7.50	419.00	46.00	110.00
70/ 7/26 820	15.50	14.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 7/27 1115	17.00	25.00	**********	**********	**********	**********	7.60	**********	1.00	122.00
70/ 7/28 850	16.00	18.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 7/29 835	15.00	15.00	**********	**********	**********	**********	7.50	**********	0.90	124.00
70/ 8/ 1 1525	22.00	32.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 8/11 1130	17.00	26.00	**********	**********	8.50	7.40	7.10	480.00	0.40	124.00
					**********	**********	7.60	**********	**********	**********
ARITHMETIC MEAN	14.12	16.43	0.00	0.00	8.57	7.27	7.53	426.49	11.61	121.00
STD. DEVIATION	3.9896	7.6564	0.0000	0.0000	0.7274	0.2062	0.2123	103.5653	17.9004	17.2861
NO. OF VALUES	14	16	0	0	4	4	9	4	6	6

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 471000.
GARDINER RIVER BELOW MAMMOTH
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	940. CHLORIDE CL MG/L	945. SULFATE SO4 MG/L	284. BOD 2 DAY MG/L	310. BOD 5 DAY MG/L	610. AMMONIA NH3-N MG/L	625. TOT KJEL N MG/L	630. NO2&NO3 N MG/L	668. PHOS-T P-WET MG/L	70507. PHOS-T ORTHO MG/L-P	919. CALCIUM CA.DISS MG/L
70/ 5/ 7 1310	5.00	120.00	**********	**********	0.00+	0.63	0.05	0.06	0.04	27.00
70/ 5/14 1209	**********	**********	1.30	1.20	**********	**********	**********	**********	**********	**********
70/ 5/14 905	**********	**********	1.20	1.10	**********	**********	**********	**********	**********	**********
70/ 5/24 849	10.00	52.00	**********	**********	0.03	0.13	0.11	0.02	0.00	34.00
70/ 7/22 1213	15.00	66.00	**********	**********	0.00+	0.14	0.03	0.06	0.06	50.00
70/ 7/26 820	**********	**********	0.60	1.20	**********	**********	**********	**********	**********	**********
70/ 7/28 850	**********	**********	0.30	0.60	**********	**********	**********	**********	**********	**********
70/ 8/ 1 1525	17.00	74.00	**********	**********	0.00+	0.34	0.02	0.05	0.03	50.00
ARITHMETIC MEAN	11.75	78.50	0.85	1.02	0.00	0.31	0.05	0.04	0.03	40.25
STD. DEVIATION	5.1774	29.1833	0.4795	0.2872	0.0150	0.2342	0.0403	0.0189	0.0217	11.6154
NO. OF VALUES	4	4	4	4	4	4	4	4	4	4

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA, 11/16/70

STATION 471005,
GARDINER RIVER BELOW MAMMOTH
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	930, SODIUM NA,DISS MG/L	935, PTSSIUM K,DISS MG/L	950, FLUORIDE F,DISS MG/L	1020, BORON B,DISS UG/L	1040, COPPER CU UG/L	1045, IRON TOTAL UG/L	1055, MANGANESE MN UG/L	1090, ZINC ZN,DISS UG/L	1145, SELENIUM SE,DISS UG/L	9503, RA-226 DISOLVED PC/L
70/ 5/ 7 1310	28.00	10.40	1.60	**********	0.00+	1100.00	30.00	10.00	**********	**********
70/ 5/24 845	10.00	4.10	0.50	**********	0.00+	1100.00	40.00	10.00	**********	**********
70/ 7/22 1219	17.00	8.00	1.00	**********	0.00+	2700.00	50.00	0.00	**********	**********
70/ 8/ 1 1525	19.00	8.10	1.00	**********	0.00+	0.15	0.00+	0.00	**********	**********
ARITHMETIC MEAN	18.50	7.65	1.02	0.00	0.00	1225.03	30.00	5.00	0.00	0.00
STD. DEVIATION	7.4162	2.6134	0.4500	0.0000	0.0000	1111.6237	21.6024	5.7735	0.0000	0.0000
NO, OF VALUES	4	4	4	0	4	4	4	4	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 11/16/70

STATION 471009.
GARDINER RIVER BELOW MAMMOTH
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	925. MAGNESIUM MG.DISS MG/L	1005. BARIUM BA.DISS UG/L	1049. LEAD PB.DISS UG/L	720. CYANIDE CN MG/L	1000. ARSENIC AS.DISS UG/L	32730. PHENOLS UG/L	500. RESIDUE TOTAL MG/L	515. RESIDUE TOT FLT MG/L	22703. U-MAT DISOLVED UG/L
70/ 5/ 7 1310	10.00	0.00+	0.00+**********	**********	**********	1.80	430.00	413.00	**********
70/ 5/24 845	9.00	0.00+	0.00+**********	**********	**********	**********	237.00	207.00	**********
70/ 7/22 1215	10.00	0.00+	0.00+**********	**********	**********	**********	418.00	279.00	**********
70/ 8/ 1 1925	13.50	0.00+	0.00+**********	**********	**********	**********	949.00	339.00	**********
ARITHMETIC MEAN	12.62	0.00	0.00	0.00	0.00	1.80	388.49	311.24	0.00
STD. DEVIATION	4.0697	0.0000	0.0000	0.0000	0.0000	0.0000	103.3209	89.2113	0.0000
NO. OF VALUES	4	4	4	0	0	1	4	4	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM-BACT. 11/16/70

STATION 971003.
GARDINER RIVER BELOW MAMMOTH
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	955. SILICA SIO2 MG/L	680. T ORG C C MG/L	38260. MBAS MG/L	31501. COLIFORM IMEDENDO MF/100ML	31616. FEC COLI MF-C44.5 MF/100ML	31673. STPCOCCI KF AGR MF/100ML
70/ 5/ 7 1310	**********	36.00	**********	**********	**********	**********
70/ 5/13 920	**********	**********	**********	2.00	2.00	**********
70/ 5/14 1205	**********	**********	**********	1.00-	1.00-	**********
70/ 5/15 1135	**********	**********	**********	4.00	1.00	**********
70/ 5/16 905	**********	**********	**********	4.00	4.00	**********
70/ 5/17 535	**********	**********	**********	77.00	57.00	**********
70/ 5/24 945	**********	25.00	**********	**********	**********	**********
70/ 5/28 1145	**********	**********	**********	43.00	23.00	**********
70/ 7/22 1213	23.00	29.00	**********	**********	**********	**********
70/ 7/25 1125	**********	**********	**********	**********	1.00	93.00
70/ 7/26 825	**********	**********	**********	**********	10.00	70.00
70/ 7/27 1115	**********	**********	**********	**********	6.98	3.00
70/ 7/28 850	**********	**********	**********	**********	4.00	23.00
70/ 7/29 838	**********	**********	**********	**********	22.00	92.00
70/ 8/ 1 1525	25.00	36.00	**********	**********	**********	**********
70/ 8/11 1130	**********	**********	**********	**********	1.00-	78.00
ARITHMETIC MEAN	24.00	31.50	0.00	21.83	11.00	53.16
STD. DEVIATION	1.4143	5.4467	0.0000	31.4795	16.4738	34.3942
NO. OF VALUES	2	4	0	6	12	6

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 11/16/70

STATION 571006.
GARDINER RIVER ABOVE MAMMOTH
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	10. WATER TEMP CENT	20. AIR TEMP CENT	3. VSAMPLOC DEPTH FEET	60. STREAM FLOW CUFT/SEC	300. DO MG/L	400. PH S U	403. LAB PH SU	95. CNDUCTVY AT 25C MICROMHO	70. TURB JKSN JU	410. T ALK CACO3 MG/L
70/ 5/ 7 1445	7.00	8.00	**********	**********	8.70	7.40	7.50	245.00	2.00	90.00
70/ 5/13 840	1.00	3.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 5/14 1235	6.00	3.00	**********	**********	**********	**********	7.80	**********	**********	**********
70/ 5/15 1139	7.00	9.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 5/16 1315	8.00	23.00	**********	**********	**********	**********	7.80	**********	**********	**********
70/ 5/17 815	2.00	4.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 5/27 1125	5.00	16.00	**********	**********	9.50	7.60	7.10	174.00	12.00	80.00
70/ 5/28 1200	5.00	8.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 7/22 1500	13.00	24.00	**********	182.00	8.10	7.20	7.40	169.00	0.80	64.00
70/ 7/25 1142	13.00	28.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 7/26 815	11.50	4.00	**********	**********	**********	**********	7.40	**********	1.30	65.00
70/ 7/27 1142	14.50	27.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 7/28 750	8.00	10.00	**********	**********	**********	**********	7.90	**********	0.90	105.00
70/ 7/29 750	12.50	7.50	**********	**********	**********	**********	**********	**********	**********	**********
70/ 8/ 1 1230	16.00	24.00	**********	157.00	6.60	7.50	7.10	163.00	1.00	66.00
70/ 8/11 1250	13.00	20.00	**********	**********	**********	**********	7.90	**********	**********	**********
ARITHMETIC MEAN	8.78	13.63	0.00	169.50	8.72	7.42	7.50	187.75	3.00	78.33
STD. DEVIATION	4.44645	9.2429	0.0000	17.6776	0.5795	0.1708	0.2916	38.4309	4.4303	16.6434
NO. OF VALUES	16	16	0	2	4	4	9	4	6	6

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 11/16/70

STATION 5710G6.
GARDINER RIVER ABOVE MAMMOTH
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	940. CHLORIDE CL MG/L	945. SULFATE SO4 MG/L	304. BOD 2 DAY MG/L	310. BOD 5 DAY MG/L	610. AMMONIA NH3-N MG/L	625. TOT KJEL N MG/L	630. NO2&NO3 N MG/L	665. PHOS-T P-WET MG/L	70507. PHOS-T ORTHO MG/L-P	915. CALCIUM CA,DISS MG/L
70/ 5/ 7 1445	9.00	34.00	**********	**********	0.02	0.25	0.05	0.03	0.01	24.00
70/ 5/14 1235	**********	**********	1.20	1.30	**********	**********	**********	**********	**********	**********
70/ 5/16 1315	**********	**********	1.60	1.90	**********	**********	**********	**********	**********	**********
70/ 5/27 1120	**********	18.00	**********	**********	0.02	0.04	0.09	0.02	0.00	19.00
70/ 7/22 1800	5.00	9.80	**********	**********	0.02	0.03	0.01	0.01	0.00+	20.00
70/ 7/26 610	**********	**********	0.60	1.00	**********	**********	**********	**********	**********	**********
70/ 7/28 750	**********	**********	0.20	0.60	**********	**********	**********	**********	**********	**********
70/ 8/ 1 1230	6.00	10.00	**********	**********	0.00+	0.04	0.02	0.02	0.00+	19.00
ARITHMETIC MEAN	6.66	17.95	0.90	1.20	0.01	0.09	0.04	0.02	0.00	20.50
STD. DEVIATION	2.0816	11.3611	0.6218	0.3477	0.0100	0.1067	0.0359	0.0081	0.0062	2.3804
NO. OF VALUES	3	4	4	4	4	4	4	4	4	4

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA, 11/16/70

STATION 5710065
GARDINER RIVER ABOVE MAMMOTH
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	930, SODIUM NA,DISS MG/L	935, PTSSIUM K,DISS MG/L	950, FLUORIDE F,DISS MG/L	1020, BORON B,DISS UG/L	1040, COPPER CU UG/L	1045, IRON TOTAL UG/L	1055, MANGNESE MN UG/L	1090, ZINC ZN,DISS UG/L	1145, SELENIUM SE,DISS UG/L	9302, RA-226 DISOLVED PC/L
70/ 5/ 7 1445	9.70	3.50	0.50	**********	0.00+	900.00	70.00	0.01	**********	**********
70/ 5/27 1120	1.40	0.80	0.00	**********	0.00+	1300.00	30.00	0.01	**********	**********
70/ 7/22 1300	7.00	2.60	1.00	**********	0.00+	170.00	0.00+	0.00	**********	**********
70/ 8/ 1 1230	7.30	2.70	1.40	**********	0.00+	100.00	0.00+	0.00	**********	**********
ARITHMETIC MEAN	6.35	2.40	0.82	0.00	0.00	517.50	25.00	0.00	0.00	0.00
STD. DEVIATION	3.9142	1.1401	0.6946	0.0000	0.0000	550.0923	33.1662	0.0057	0.0000	0.0000
NO. OF VALUES	4	4	4	0	4	4	4	3	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA- 11/18/70

STATION 471000-
GARDINER RIVER ABOVE MAMMOTH
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	925- MAGNESIUM MG-DISS MG/L	1005- BARIUM BA-DISS UG/L	1049- LEAD PB-DISS UG/L	720- CYANIDE CN MG/L	1000- ARSENIC AS-DISS UG/L	32730- PHENOLS UG/L	900- HARDNESS TOTAL MG/L	919- HARDNESS NONCARB TOT FLT MG/L	22703- URANIUM DISSOLVED UG/L
70/ 8/ 7 1445	**********	0.00*	0.00**********	**********	**********	**********	209.00	209.00	**********
70/ 8/27 1120	7.00	0.00*	0.00**********	**********	**********	**********	173.00	112.00	**********
70/ 9/22 1503	3.00	0.00*	0.00**********	**********	**********	**********	140.00	139.00	**********
70/ 8/ 3 1230	4.00	0.00*	0.02**********	**********	**********	**********	165.00	165.00	**********
ARITHMETIC MEAN	4.66	0.00	0.00	0.00	0.00	0.00	165.75	148.75	0.00
STD. DEVIATION	2.0816	0.0000	0.0000	0.0000	0.0000	0.0000	29.9263	39.9031	0.0000
NO. OF VALUES	3	4	4	0	0	0	4	4	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM-BACT. 11/16/70

STATION 571006.
GARDINER RIVER ABOVE MAMMOTH
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	955. SILICA $102 MG/L	680. T ORG C C MG/L	38260. MBAS MG/L	31501. COLIFORM IMEDENDO MF/100ML	31616. FEC COLI MF-C44.5 MF/100ML	31673. STPCOCCI KF AGR MF/100ML
70/ 5/ 7 1445	**********	23.00	**********	**********	**********	**********
70/ 5/13 840	**********	**********	**********	2.00	2.00	**********
70/ 5/14 1235	**********	**********	**********	1.00-	1.00-	**********
70/ 5/15 1155	**********	**********	**********	1.00	1.00	**********
70/ 5/16 1125	**********	**********	**********	1.00	1.00-	**********
70/ 5/17 515	**********	**********	**********	40.00	4.00	**********
70/ 5/27 1120	**********	24.00	**********	**********	**********	**********
70/ 5/28 1200	**********	**********	**********	13.00	1.00-	**********
70/ 7/22 1300	25.00	15.00	**********	**********	**********	**********
70/ 7/25 1140	**********	**********	**********	**********	2.00	3.00
70/ 7/26 610	**********	**********	**********	**********	40.00	18.00
70/ 7/27 1140	**********	**********	**********	**********	11.00	40.00
70/ 7/28 750	**********	**********	**********	**********	11.00	17.00
70/ 7/29 750	**********	**********	**********	**********	21.00	33.00
70/ 8/ 1 1235	27.00	16.00	**********	**********	**********	**********
70/ 8/11 1250	**********	**********	**********	**********	1.00	11.00
ARITHMETIC MEAN	26.00	19.50	0.00	9.66	8.00	20.33
STD. DEVIATION	1.4143	4.6547	0.0000	15.5905	11.8475	13.7937
NO. OF VALUES	2	4	0	6	12	6

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 471007.
LAVA CREEK LAVA CREEK PICNIC G
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	10. WATER TEMP CENT	20. AIR TEMP CENT	3. VSAMPLOC DEPTH FEET	60. STREAM FLOW CUFT/SEC	300. DO MG/L	400. PH S U	403. LAB PH SU	95. CNDUCTVY AT 25C MICROMHO	70. TURB JKSN JU	410. T ALK CACO3 MG/L
70/ 5/ 7 1250	4.00	13.00	**********	**********	9.00	7.70	7.90	64.00	0.70	47.00
70/ 5/24 930	4.00	9.00	**********	78.00	10.00	7.20	7.10	62.00	3.40	26.00
70/ 7/22 1125	8.50	14.00	**********	66.20	9.00	7.40	7.40	67.00	0.70	30.00
70/ 7/25 1035	9.00	22.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 7/26 840	8.00	15.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 7/27 1030	9.00	23.00	**********	**********	**********	**********	7.30	**********	0.60	31.00
70/ 7/28 930	9.00	16.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 7/29 855	7.50	15.00	**********	**********	**********	**********	7.30	**********	2.00	31.00
70/ 8/ 2 1405	14.00	23.00	**********	64.40	8.30	8.00	8.90	69.00	0.40	30.00
70/ 8/11 1100	9.00	19.00	**********	**********	**********	**********	7.60	**********	**********	**********
ARITHMETIC MEAN	7.81	16.81	0.00	69.53	9.07	7.37	7.33	71.75	1.30	32.50
STD. DEVIATION	2.9687	4.4681	0.0000	7.3675	0.6994	0.3900	0.3299	11.8709	1.1784	7.3417
NO. OF VALUES	11	11	0	3	4	4	7	4	6	6

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 11/16/70

STATION 571007:
LAVA CREEK LAVA CREEK PICNIC G
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	940: CHLORIDE CL MG/L	945: SULFATE SO4 MG/L	304: BOD 2 DAY MG/L	310: BOD 5 DAY MG/L	610: AMMONIA NH3-N MG/L	625: TOT KJEL N MG/L	630: NO2&NO3 N MG/L	665: PHOS-T P-WET MG/L	70507: PHOS-T ORTHO MG/L-P	918: CALCIUM CA:DISS MG/L
70/ 5/ 7 1250	3.00	10.00	**********	**********	0.01	0.06	0.02	0.03	0.01	9.30
70/ 5/24 930	0.80	8.80	**********	**********	0.01	0.23	0.04	0.02	0.00	4.80
70/ 7/22 1125	0.40	4.20	**********	**********	0.01	0.02	0.01	0.03	0.02	5.80
70/ 7/26 840	**********	**********	0.40	0.80	**********	**********	**********	**********	**********	**********
70/ 7/28 930	**********	**********	0.10	0.40	**********	**********	**********	**********	**********	**********
70/ 8/ 2 1405	0.40	3.80	**********	**********	0.02	0.10	0.01	0.22	0.05	9.20
ARITHMETIC MEAN	1.15	6.72	0.25	0.60	0.01	0.10	0.02	0.07	0.02	6.82
STD. DEVIATION	1.2476	3.1340	0.2121	0.2828	0.0050	0.0910	0.0141	0.0967	0.0200	2.1562
NO. OF VALUES	4	4	2	2	4	4	4	4	4	4

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 11/16/70

STATION 971007.
LAVA CREEK LAVA CREEK PICNIC G
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	930. SODIUM NA.DISS MG/L	935. PTSSIUM K.DISS MG/L	950. FLUORIDE F.DISS MG/L	1020. BORON B.DISS UG/L	1040. COPPER CU UG/L	1045. IRON TOTAL UG/L	1055. MANGNESE MN UG/L	1090. ZINC ZN.DISS UG/L	1145. SELENIUM SE.DISS UG/L	9503. RA-226 DISOLVED PC/L
70/ 5/ 7 1250	5.60	0.70	1.60	**********	0.00+	150.00	30.00	0.00	**********	**********
70/ 5/24 930	3.50	1.20	0.80	**********	0.00+	250.00	0.00+	0.00	**********	**********
70/ 7/22 1125	4.50	1.60	1.20	**********	0.00+	0.00+	0.00+	0.00	**********	**********
70/ 8/ 2 1405	4.90	1.80	1.23	**********	0.00+	0.00+	0.00+	0.00	**********	**********
ARITHMETIC MEAN	4.62	1.32	1.20	0.00	0.00	100.00	7.50	0.00	0.00	0.00
STD. DEVIATION	0.8770	0.4856	0.3266	0.0000	0.0000	122.4744	14.9999	0.0000	0.0000	0.0000
NO. OF VALUES	4	4	4	0	4	4	4	4	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 11/16/72

STATION 571007.
LAVA CREEK LAVA CREEK PICNIC G
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	925. MGNSIUM MG.DISS MG/L	1005. BARIUM BA.DISS UG/L	1049. LEAD PB.DISS UG/L	720. CYANIDE CN MG/L	1000. ARSENIC AS.DISS UG/L	32730. PHENOLS UG/L	500. RESIDUE TOTAL MG/L	515. RESIDUE TOT FLT MG/L	22703. U-VAT DISOLVED UG/L
70/ 5/ 7 1250	3.10	0.00+	0.00**********	**********	**********	**********	98.00	98.00	**********
70/ 5/24 930	1.90	0.00+	0.00**********	**********	**********	**********	126.00	79.00	**********
70/ 7/22 1129	3.60	0.00+	0.00**********	**********	**********	**********	81.00	79.00	**********
70/ 8/ 2 1405	1.80	0.00+	0.00**********	**********	**********	**********	259.00	150.00	**********
ARITHMETIC MEAN	2.60	0.00	0.00	0.00	0.00	0.00	141.00	101.50	0.00
STD. DEVIATION	0.8906	0.0000	0.0000	0.0000	0.0000	0.0000	80.8248	33.5910	0.0000
NO. OF VALUES	4	4	4	0	0	0	4	4	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM-BACT. 11/16/70

STATION 971007.
LAVA CREEK LAVA CREEK PICNIC G
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	955. SILICA SIO2 MG/L	680. T ORG C C MG/L	38260. MBAS MG/L	31501. COLIFORM IMEDENDO MF/100ML	31616. FEC COLI MF-C44.5 MF/100ML	31673. STPCOCCI KF AGR MF/100ML
70/ 5/ 7 1250	**********	11.00	**********	**********	**********	**********
70/ 5/24 930	**********	11.00	**********	**********	**********	**********
70/ 5/28 1100	**********	**********	**********	31.00	1.00-	**********
70/ 7/22 1125	33.00	9.00	**********	**********	**********	**********
70/ 7/25 1035	**********	**********	**********	**********	4.00	22.00
70/ 7/26 840	**********	**********	**********	**********	1.00	10.00
70/ 7/27 1030	**********	**********	**********	**********	1.00-	12.00
70/ 7/28 930	**********	**********	**********	**********	6.00	9.00
70/ 7/29 855	**********	**********	**********	**********	2.00	15.00
70/ 8/ 2 1405	33.00	8.00	**********	**********	**********	**********
70/ 8/11 1100	**********	**********	**********	**********	2.00	20.00
ARITHMETIC MEAN	33.00	9.75	0.00	31.00	2.42	14.66
STD. DEVIATION	0.0220	1.5000	0.0000	0.0000	1.9023	5.3541
NO. OF VALUES	2	4	0	1	7	6

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 11/16/70

STATION 571008.
SLOUGH CREEK ABOVE CAMPGROUND
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	10. WATER TEMP CENT	20. AIR TEMP CENT	3. VSAMPLOC DEPTH FEET	60. STREAM FLOW CUFT/SEC	300. DO MG/L	400. PH S U	403. LAB PH SU	95. CNDUCTVY AT 25C MICROMHO	70. TURB JKSN JU	410. T ALK CACO3 MG/L
70/ 9/24 1115	4.00	15.00	**********	**********	9.60	7.30	7.30	99.00	5.70	51.00
70/ 9/28 1005	3.00	11.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 7/22 845	11.50	12.00	**********	**********	7.80	7.50	7.90	127.00	0.80	64.00
70/ 7/25 920	11.50	19.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 7/26 1030	12.00	19.00	**********	**********	**********	**********	7.80	**********	0.90	69.00
70/ 7/27 920	12.00	14.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 7/28 1050	12.00	18.00	**********	**********	**********	**********	8.00	**********	0.80	72.00
70/ 7/29 1055	12.00	20.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 8/ 2 940	14.00	17.00	**********	**********	8.60	8.00	7.60	153.00	0.40	76.00
70/ 8/11 1130	13.00	24.00	**********	**********	**********	**********	7.60	**********	**********	**********
ARITHMETIC MEAN	10.50	16.90	0.00	0.00	8.66	7.60	7.70	126.33	1.72	66.40
STD. DEVIATION	3.7712	3.9567	0.0000	0.0000	0.9018	0.3606	0.2531	27.0064	2.2331	9.6593
NO. OF VALUES	10	10	0	0	3	3	6	3	5	5

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 571008.
SLOUGH CREEK ABOVE CAMPGROUND
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	940. CHLORIDE CL MG/L	945. SULFATE SO4 MG/L	304. BOD 2 DAY MG/L	310. BOD 5 DAY MG/L	610. AMMONIA NH3-N MG/L	625. TOT KJEL N MG/L	630. NO2&NO3 N MG/L	665. PHOS-T P-WET MG/L	70507. PHOS-T ORTHO MG/L-P	915. CALCIUM CA.DISS MG/L
70/ 5/24 1115	0.50	10.00	**********	**********	0.02	0.10	0.03	0.02	0.00	11.00
70/ 7/22 845	0.30	5.00	**********	**********	0.01	0.60	0.00+	0.07	0.02	17.00
70/ 7/26 1030	**********	**********	0.50	0.80	**********	**********	**********	**********	**********	**********
70/ 7/28 1050	**********	**********	0.40	0.50	**********	**********	**********	**********	**********	**********
70/ 8/ 2 940	0.20	2.90	**********	**********	0.01	0.02	0.00+	0.09	0.01	17.00
ARITHMETIC MEAN	0.33	5.96	0.45	0.65	0.01	0.24	0.01	0.06	0.01	15.00
STD. DEVIATION	0.1527	3.6473	0.0707	0.2121	0.0057	0.3143	0.0173	0.0360	0.0080	3.4641
NO. OF VALUES	3	3	2	2	3	3	3	3	3	3

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA, 11/16/70

STATION 571008.
SLOUGH CREEK ABOVE CAMPGROUND
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	930. SODIUM NA,DISS MG/L	939. PTSSIUM K,DISS MG/L	950. FLUORIDE F,DISS MG/L	1020. BORON B,DISS UG/L	1040. COPPER CU UG/L	1045. IRON TOTAL UG/L	1055. MANGNESE MN UG/L	1090. ZINC ZN,DISS UG/L	1145. SELENIUM SE,DISS UG/L	9503. RA-226 DISOLVED PC/L
70/ 5/24 1115	1.90	1.10	0.00+**********		0.00+	700.00	20.00	0.00+**********		*********
70/ 7/22 845	1.90	1.10	0.00+**********		0.00+	0.00+	0.00+	0.00+**********		*********
70/ 8/ 2 940	2.40	1.40	0.00+**********		0.00+	0.00+	0.00+	0.00+**********		*********
ARITHMETIC MEAN	2.06	1.23	0.00	0.00	0.00	233.33	6.66	0.00	0.00	0.00
STD. DEVIATION	0.2886	0.1732	0.0000	0.0000	0.0000	404.1447	11.5469	0.0050	0.0000	0.0000
NO. OF VALUES	3	3	3	0	3	3	3	3	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA 11/16/70

STATION 971008
SLOUGH CREEK ABOVE CAMPGROUND
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	925 MAGNESIUM MG DISS MG/L	1005 BARIUM BA DISS UG/L	1049 LEAD PB DISS UG/L	720 CYANIDE CN MG/L	1000 ARSENIC AS DISS UG/L	32730 PHENOLS UG/L	900 RESIDUE TOTAL MG/L	915 RESIDUE TOT FLT MG/L	22703 W-MAT DISSOLVED UG/L
70/ 9/24 1115	3.60	0.00+	0.00+**********	**********	**********	**********	107.00	90.00	**********
70/ 7/22 845	3.80	0.00+	0.00+**********	**********	**********	**********	95.00	83.00	**********
70/ 6/ 2 940	6.00	0.00+	0.00+**********	**********	**********	**********	113.00	23.00	**********
ARITHMETIC MEAN	4.40	0.00	0.00	0.00	0.00	0.00	105.00	65.33	0.00
STD. DEVIATION	1.3856	0.0000	0.0000	0.0000	0.0000	0.0000	9.1655	34.8284	0.0000
NO. OF VALUES	3	3	3	0	0	0	3	3	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM-BACT. 11/18/70

STATION 571008.
SLOUGH CREEK ABOVE CAMPGROUND
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	955. SILICA SIO2 MG/L	680. T ORG C C MG/L	38260. HBAS MG/L	31501. COLIFORM IMEDENDO MF/100ML	31616. FEC COLI MF-C44.5 MF/100ML	31673. STPLOCCI KF AGR MF/100ML
70/ 5/24 1115	**********	18.00	**********	**********	**********	**********
70/ 5/28 1005	**********	**********	**********	60.00	40.00	**********
70/ 7/22 845	14.00	20.00	**********	**********	**********	**********
70/ 7/25 920	**********	**********	**********	**********	5.00	27.00
70/ 7/26 1030	**********	**********	**********	**********	8.00	23.00
70/ 7/27 920	**********	**********	**********	**********	12.00	19.00
70/ 7/28 1050	**********	**********	**********	**********	3.00	13.00
70/ 7/29 1055	**********	**********	**********	**********	6.00	23.00
70/ 8/ 2 940	16.00	19.00	**********	**********	**********	**********
70/ 8/11 1130	**********	**********	**********	**********	1.00-	42.00
ARITHMETIC MEAN	15.00	19.00	0.00	60.00	10.42	23.83
STD. DEVIATION	1.4142	1.0000	0.0000	0.0000	13.4766	10.3618
NO. OF VALUES	2	3	0	1	7	6

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 571089.
SLOUGH CREEK BELOW CAMPGROUND
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	10. WATER TEMP CENT	20. AIR TEMP CENT	3. VSAMPLOC DEPTH FEET	60. STREAM FLOW CUFT/SEC	300. DO MG/L	400. PH S U	403. LAB PH SU	95. CNDUCTVY AT 25C MICROMHO	70. TURB JKSN JU	410. T ALK CACO3 MG/L
70/ 5/ 9 1248	4.00	7.00	**********	**********	10.10	7.90	8.10	166.00	0.90	99.00
70/ 5/13 1040	2.00	6.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 5/14 1025	6.00	4.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 5/15 1005	6.00	11.00	**********	**********	**********	**********	7.70	**********	**********	**********
70/ 5/16 1025	6.00	13.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 5/17 935	6.00	12.00	**********	**********	**********	**********	7.90	**********	**********	**********
70/ 7/22 830	11.50	12.00	**********	**********			**********	**********	**********	**********
70/ 7/25 940	11.50	19.00	**********	**********	8.60	7.40	7.80	112.00	1.10	57.00
70/ 7/26 1045	12.00	20.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 7/27 930	12.00	16.00	**********	206.00	**********	**********	7.50	**********	1.00	61.00
70/ 7/28 1105	12.00	21.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 7/29 1105	12.00	20.00	**********	**********	**********	**********	7.80	**********	0.70	65.00
70/ 8/ 2 930	14.00	20.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 8/11 1140	15.00	34.00	**********	**********	8.70	7.60	7.40	145.00	0.60	68.00
							8.20	**********	**********	**********
ARITHMETIC MEAN	9.28	15.35	0.00	206.00	9.13	7.63	7.80	141.00	0.86	69.20
STD. DEVIATION	4.0983	7.8014	0.0000	0.0000	0.8386	0.2517	0.2724	27.2216	0.2073	15.0067
NO. OF VALUES	14	14	0	1	3	5	6	5	5	5

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA, 11/16/70

STATION 971009,
SLOUGH CREEK BELOW CAMPGROUND
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	940, CHLORIDE CL MG/L	945, SULFATE SO4 MG/L	304, BOD 2 DAY MG/L	310, BOD 5 DAY MG/L	610, AMMONIA NH3-N MG/L	625, TOT KJEL N MG/L	630, NO2&NO3 N MG/L	665, PHOS-T P-WET MG/L	70507, PHOS-T ORTHO MG/L-P	919, CALCIUM CA,DISS MG/L
70/ 9/ 9 1240	1.00	10.00	**********	**********	0.01	0.16	0.01	0.03	0.00	28.00
70/ 9/16 1025	**********	**********	1.10	0.90	**********	**********	**********	**********	**********	**********
70/ 9/16 1025	**********	**********	1.10	1.10	**********	**********	**********	**********	**********	**********
70/ 7/22 830	0.20	5.00	**********	**********	0.00+	0.00+	0.00+	0.09	0.02	14.00
70/ 7/26 1045	**********	**********	0.30	0.80	**********	**********	**********	**********	**********	**********
70/ 7/28 1105	**********	**********	0.20	0.80	**********	**********	**********	**********	**********	**********
70/ 8/ 2 930	0.20	5.80	**********	**********	0.01	0.01	0.00+	0.09	0.02	14.00
ARITHMETIC MEAN	0.46	6.93	0.67	0.90	0.00	0.05	0.00	0.07	0.01	18.66
STD. DEVIATION	0.4618	2.6857	0.4924	0.1414	0.0057	0.0896	0.0057	0.0346	0.0092	8.0829
NO. OF VALUES	3	3	4	4	3	3	3	3	3	3

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA 11/16/70

STATION 9710090
SLOUGH CREEK BELOW CAMPGROUND
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	920 SODIUM NA+DISS MG/L	928 POTASSIUM K+DISS MG/L	950 FLUORIDE F+DISS MG/L	1020 BORON B+DISS UG/L	1040 COPPER CU UG/L	1049 IRON TOTAL UG/L	1055 MANGANESE MN UG/L	1090 ZINC ZN+DISS UG/L	1145 SELENIUM SE+DISS UG/L	99334 RA-226 DISSOLVED PC/L
70/ 5/ 9 1240	2.60	1.30	0.10 **********		0.00+	100.00	0.00+	0.00+**********	**********	
70/ 7/22 830	2.30	1.40	0.00+**********		0.00+	120.00	0.00+	6.00 **********	**********	
70/ 8/ 8 930	2.40	1.50	0.00+**********		0.00+	0.00+	0.00+	0.00+**********	**** ****	
ARITHMETIC MEAN	2.50	1.40	0.03	0.00	0.00	73.33	0.00	2.00	0.00	0.00
STD. DEVIATION	0.2645	0.1000	0.0577	0.0000	0.0000	64.2909	0.0000	3.4640	0.0000	0.0000
NO. OF VALUES	3	3	3	0	3	3	3	3	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA, 11/16/70

STATION 471009.
SLOUGH CREEK BELOW CAMPGROUND
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	925. MGNSIUM MG.DISS MG/L	1005. BARIUM BA.DISS UG/L	1049. LEAD PB.DISS UG/L	720. CYANIDE CN MG/L	1000. ARSENIC AS.DISS UG/L	32730. PHENOLS UG/L	500. RESIDUE TOTAL MG/L	515. RESIDUE TOT FLT MG/L	22703. U-NAT DISOLVED UG/L
70/ 5/ 9 1240	0.60	0.00+	0.00+**********	**********	**********	**********	129.00	114.00	**********
70/ 7/22 830	3.20	0.00+	0.00+**********	**********	**********	**********	178.00	116.00	**********
70/ 8/ 2 930	4.80	0.00+	0.00+**********	**********	**********	**********	106.00	73.00	**********
ARITHMETIC MEAN	2.86	0.00	0.00	0.00	0.00	0.00	137.66	101.00	0.00
STD. DEVIATION	2.1197	0.0000	0.0000	0.0000	0.0000	0.0000	36.7742	24.2694	0.0000
NO. OF VALUES	3	3	3	0	0	0	3	3	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM-BACT. 11/16/70

STATION 571009.
SLOUGH CREEK BELOW CAMPGROUND
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	955. SILICA SIO2 MG/L	680. T ORG C C MG/L	28260. MBAS MG/L	31501. COLIFORM IMEDENDO MF/100ML	31616. FEC COLI MF-C44.5 MF/100ML	31673. STPCOCCI KF AGR MF/100ML
70/ 5/ 9 1240	**********	23.00	**********	**********	**********	**********
70/ 5/13 1040	**********	**********	**********	17.00	7.00	**********
70/ 5/14 1025	**********	**********	**********	3.00	3.00	**********
70/ 5/15 1005	**********	**********	**********	10.00	7.00	**********
70/ 5/16 1025	**********	**********	**********	32.00	21.00	**********
70/ 5/17 935	**********	**********	**********	37.00	36.00	**********
70/ 7/22 830	17.00	13.00	**********	**********	**********	**********
70/ 7/25 940	**********	**********	**********	**********	6.00	29.00
70/ 7/26 1045	**********	**********	**********	**********	9.00	36.00
70/ 7/27 930	**********	**********	**********	**********	13.00	24.00
70/ 7/28 1105	**********	**********	**********	**********	1.00	12.00
70/ 7/29 1105	**********	**********	**********	**********	2.00	17.00
70/ 8/ 2 930	18.00	19.00	**********	**********	**********	**********
70/ 8/11 1140	**********	**********	**********	**********	1.00-	8.00
ARITHMETIC MEAN	17.50	18.33	0.00	19.80	9.36	21.00
STD. DEVIATION	0.7071	5.0332	0.0000	14.4118	10.5855	10.6207
NO. OF VALUES	2	3	0	5	11	6

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 11/16/70

STATION ST1810:
LAMAR R. ABOVE SODA BUTTE INFLOW
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	10: WATER TEMP CENT	20: AIR TEMP CENT	3: VSAMPLOC DEPTH FEET	60: STREAM FLOW CUFT/SEC	300: DO MG/L	400: PH S U	403: LAB PH SU	95: CNDUCTVY AT 25C MICROMHO	78: TURB JKSN JU	410: T ALK CACO3 MG/L
70/ 5/ 9 1025	3.00	7.00	**********	**********	10.40	7.70	7.10	86.00	5.00	51.00
70/ 5/24 1140	**********	16.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 7/22 930	11.00	16.00	**********	**********	9.10	7.40	7.00	75.00	15.00	35.00
70/ 7/25 855	11.50	15.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 7/26 1000	12.00	18.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 7/27 900	12.00	11.00	**********	**********	**********	**********	7.10	**********	1.80	41.00
70/ 7/28 1035	14.00	20.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 7/29 1525	12.50	16.50	**********	**********	**********	**********	7.20	**********	110.00	40.00
70/ 8/ 2 1015	15.00	15.00	**********	284.00	8.70	7.80	7.10	97.00	1.40	44.00
ARITHMETIC MEAN	11.12	14.94	0.00	284.00	9.40	7.63	7.10	86.00	26.64	42.20
STD. DEVIATION	3.4095	3.8442	0.0000	0.0000	0.8888	0.2082	0.0710	11.0003	44.9221	5.8908
NO. OF VALUES	8	9	0	1	3	3	5	3	5	5

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 11/16/70

STATION 471018.
LAMAR R. ABOVE SODA BUTTE INFLOW
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	940. CHLORIDE CL MG/L	945. SULFATE SO4 MG/L	304. BOD 2 DAY MG/L	310. BOD 5 DAY MG/L	610. AMMONIA NH3-N MG/L	625. TOT KJEL N MG/L	630. NO2&NO3 N MG/L	665. PHOS-T P-WET MG/L	70507. PHOS-T ORTHO MG/L-P	915. CALCIUM CA,DISS MG/L
70/ 5/ 9 1025	2.00	22.00	**********	**********	0.01	0.28	0.03	0.12	0.08	8.80
70/ 7/22 930	0.40	8.80	**********	**********	0.00+	0.06	0.01	0.07	0.05	9.10
70/ 7/26 1000	**********	**********	0.30	0.80	**********	**********	**********	**********	**********	**********
70/ 7/28 1035	**********	**********	0.20	0.80	**********	**********	**********	**********	**********	**********
70/ 8/ 2 1015	0.60	9.60	**********	**********	0.01	0.20	0.02	0.10	0.06	9.40
ARITHMETIC MEAN	1.00	13.46	0.25	0.80	0.00	0.18	0.02	0.09	0.06	6.50
STD. DEVIATION	0.8717	7.4009	0.0707	0.0004	0.0057	0.1113	0.0100	0.0251	0.0158	2.0074
NO. OF VALUES	3	3	2	2	3	3	3	3	3	3

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 11/16/70

STATION 471010.
LAMAR R. ABOVE SODA BUTTE INFLOW
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	930. SODIUM NA+DISS MG/L	935. PTSSIUM K+DISS MG/L	950. FLUORIDE F+DISS MG/L	1020. BORON B+DISS UG/L	1040. COPPER CU UG/L	1045. IRON TOTAL UG/L	1055. MANGANESE MN UG/L	1090. ZINC ZN+DISS UG/L	1165. SELENIUM SE+DISS UG/L	9503. RA-226 DISOLVED PC/L
70/ 5/ 9 1025	10.00	0.90	0.20	**********	0.00+	1200.00	60.00	0.00+**********		**********
70/ 7/22 930	7.70	0.90	0.10	**********	0.00+	360.00	0.00+	0.00+**********		**********
70/ 8/ 2 1015	10.00	1.40	**********	**********	0.00+	350.00	0.00+	0.00+**********		**********
ARITHMETIC MEAN	9.23	1.06	0.15	0.00	0.00	636.66	20.00	0.00	0.00	0.00
STD. DEVIATION	1.3279	0.2886	0.0707	0.0000	0.0000	487.8860	34.6409	0.0000	0.0000	0.0000
NO. OF VALUES	3	3	2	0	3	3	3	3	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 571010.
LAMAR R. ABOVE SODA BUTTE INFLOW
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	925. MGNSIUM MG.DISS MG/L	1005. BARIUM BA.DISS UG/L	1049. LEAD PB.DISS UG/L	720. CYANIDE CN MG/L	1000. ARSENIC AS.DISS UG/L	32730. PHENOLS UG/L	900. RESIDUE TOTAL MG/L	915. RESIDUE TOT FLT MG/L	22703. U-NAT DISOLVED UG/L
70/ 5/ 9 1025	3.70	0.00+	0.00	**********	**********	**********	100.00	87.00	**********
70/ 7/22 930	1.70	0.00+	0.00	**********	**********	**********	227.00	106.00	**********
70/ 8/ 2 1015	2.60	0.00+	0.00	**********	**********	**********	98.00	1.00	**********
ARITHMETIC MEAN	2.66	0.00	0.00	0.00	0.00	0.00	141.66	64.66	0.00
STD. DEVIATION	1.0016	0.0000	0.0000	0.0000	0.0000	0.0000	73.9075	55.9493	0.0000
NO. OF VALUES	3	3	3	0	0	0	3	3	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM-BACT, 11/16/70

STATION 471010,
LAMAR R. ABOVE SODA BUTTE INFLOW
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	952, SILICA SIO2 MG/L	680, T ORG C C MG/L	38260, MEAS MG/L	31501, COLIFORM IMEDENDO MF/100ML	31616, FEC COLI MF-C44.5 MF/100ML	31673, STPCOCCI KF AGR MF/100ML
70/ 5/ 9 1025	**********	14.00	**********	**********	**********	**********
70/ 7/22 930	21.00	9.00	**********	**********	**********	**********
70/ 7/25 855	**********	**********	**********	**********	10.00	10.00
70/ 7/26 1000	**********	**********	**********	**********	14.00	10.00
70/ 7/27 900	**********	**********	**********	**********	18.00	12.00
70/ 7/28 1035	**********	**********	**********	**********	170.00	175.00
70/ 7/29 1025	**********	**********	**********	**********	50.00	44.00
70/ 8/ 2 1015	23.00	13.00	**********	**********	**********	**********
ARITHMETIC MEAN	22.00	12.66	0.00	0.00	54.23	50.25
STD. DEVIATION	1.4142	3.5118	0.0000	0.0000	66.3188	71.2473
NO. OF VALUES	2	3	0	0	5	5

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 9710011. YELLOWSTONE R. AT TOWER JUNCTION
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	10. WATER TEMP CENT	20. AIR TEMP CENT	3. VSAMPLOC DEPTH FEET	60. STREAM FLOW CUFT/SEC	300. DO MG/L	400. PH S U	403. LAB PH SU	95. CNDUCTVY AT 25C MICROMHO	70. TURB JKSN JU	410. T ALK CACO3 MG/L
70/ 5/ 9 935	8.00	4.00	**********	**********	8.80	7.90	7.40	160.00	2.40	47.00
70/ 5/13 1020	6.00	4.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 5/14 1050	7.00	7.00	**********	**********	**********	**********	7.10	**********	**********	**********
70/ 5/15 1030	8.00	11.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 5/16 940	9.00	11.00	**********	**********	**********	**********	7.30	**********	**********	**********
70/ 5/17 955	9.00	17.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 5/24 1025	6.50	11.00	**********	**********	9.40	6.80	7.00	113.00	10.00	27.00
70/ 7/22 750	15.00	12.50	**********	**********	8.10	7.40	7.30	104.00	14.00	31.00
70/ 7/25 1010	15.00	20.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 7/26 1110	15.50	23.00	**********	**********	**********	**********	7.40	**********	3.20	32.00
70/ 7/27 1000	15.50	19.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 7/28 1130	16.50	23.00	**********	**********	**********	**********	7.40	**********	2.80	33.00
70/ 7/29 1125	16.00	23.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 8/ 2 905	16.00	16.00	**********	**********	8.00	7.40	6.80	108.00	0.90	31.00
ARITHMETIC MEAN	11.64	14.39	0.00	0.00	8.57	7.37	7.23	122.75	5.55	33.50
STD. DEVIATION	4.2445	6.7544	0.0000	0.0000	0.6551	0.4500	0.2560	29.0676	5.2121	6.9210
NO. OF VALUES	14	14	0	0	4	4	8	4	4	4

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 11/16/70

STATION 5710110
YELLOWSTONE R. AT TOWER JUNCTION
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	940. CHLORIDE CL MG/L	945. SULFATE SO4 MG/L	304. BOD 2 DAY MG/L	310. BOD 5 DAY MG/L	610. AMMONIA NH3-N MG/L	625. TOT KJEL N MG/L	630. NO2&NO3 N MG/L	665. PHOS-T P-WET MG/L	70507. PHOS-T ORTHO MG/L-P	919. CALCIUM CA-DISS MG/L
70/ 5/ 9 935	15.00	35.00	**********	**********	0.24	0.46	0.17	0.19	0.14	7.30
70/ 5/14 1050	**********	**********	1.10	1.40	**********	********	**********	**********	**********	**********
70/ 5/14 940	**********	**********	1.40	1.60	**********	********	**********	**********	**********	**********
70/ 5/24 1025	6.00	20.00	**********	**********	0.15	0.34	0.08	0.03	0.00	6.10
70/ 7/22 750	4.00	9.50	**********	**********	0.03	0.06	0.03	0.07	0.07	5.80
70/ 7/26 1110	**********	**********	0.40	0.80	**********	**********	**********	**********	**********	**********
70/ 7/28 1130	**********	**********	0.40	0.90	**********	**********	**********	**********	**********	**********
70/ 8/ 2 905	6.00	10.00	**********	**********	0.05	0.06	0.04	0.24	0.22	4.90
ARITHMETIC MEAN	8.25	18.62	0.82	1.17	0.11	0.23	0.08	0.12	0.10	5.92
STD. DEVIATION	4.5000	11.9399	0.5058	0.3862	0.0970	0.2023	0.0637	0.0928	0.0924	1.1500
NO. OF VALUES	4	4	4	4	4	4	4	4	4	4

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 11/16/70

STATION 671011.
YELLOWSTONE R. AT TOWER JUNCTION
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	930. SODIUM NA+DISS MG/L	935. PTSSIUM K+DISS MG/L	950. FLUORIDE F-DISS MG/L	1020. BORON B-DISS UG/L	1040. COPPER CU UG/L	1045. IRON TOTAL UG/L	1055. MANGNESE MN UG/L	1090. ZINC ZN+DISS UG/L	1145. SELENIUM SE+DISS UG/L	9503. RA-226 DISOLVED PC/L
70/ 5/ 9 935	23.00	4.80	0.60	**********	0.00+	400.00	30.00	0.00+**********	**********	
70/ 5/26 1025	12.00	3.00	0.50	**********	0.00+	400.00	30.00	0.00+**********	**********	
70/ 7/22 750	11.00	2.60	0.60	**********	0.00+	450.00	0.00+	0.20+**********	**********	
70/ 8/ 2 905	12.00	2.70	0.50	**********	0.00+	220.00	0.00+	0.00+**********	**********	
ARITHMETIC MEAN	14.50	3.27	0.55	0.00	0.00	367.50	15.00	0.00	0.00	0.00
STD. DEVIATION	5.6862	1.0307	0.0577	0.0000	0.0000	101.1189	17.3204	0.0000	0.0000	0.0000
NO. OF VALUES	4	4	4	0	4	4	4	4	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 11/16/70

STATION 571011.
YELLOWSTONE R. AT TOWER JUNCTION
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	925. MAGNESIUM MG.DISS MG/L	1005. BARIUM BA.DISS UG/L	1049. LEAD PB.DISS UG/L	720. CYANIDE CN MG/L	1000. ARSENIC AS.DISS UG/L	32730. PHENOLS UG/L	500. RESIDUE TOTAL MG/L	515. RESIDUE TOT FLT MG/L	22703. U-NAT DISOLVED UG/L
70/ 5/ 9 935	2.80	0.00+	0.00+**********	**********	**********	**********	142.00	134.00	**********
70/ 5/26 1025	2.00	0.00+	0.00+**********	**********	**********	**********	139.00	62.00	**********
70/ 7/22 750	1.80	0.00+	0.00+**********	**********	**********	**********	119.00	104.00	**********
70/ 8/ 2 905	2.20	0.00+	0.00+**********	**********	**********	**********	49.00	2.00	**********
ARITHMETIC MEAN	2.22	0.00	0.00	0.00	0.00	0.00	116.25	75.75	0.00
STD. DEVIATION	0.4349	0.0000	0.0000	0.0000	0.0000	0.0000	48.2174	57.1335	0.0000
NO. OF VALUES	4	4	4	0	0	0	4	4	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM-BACT, 11/16/70

STATION 471011.
YELLOWSTONE R. AT TOWER JUNCTION
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	955. SILICA SIO2 MG/L	680. T ORG C C MG/L	38260. MBAS MG/L	31501. COLIFORM IMEDENDO MF/100ML	31616. FEC COLI MF-C44.5 MF/100ML	31673. STPCOCCI KF AGR MF/100ML
70/ 5/ 9 935	**********	10.00	**********	**********	**********	**********
70/ 5/13 1030	**********	**********	**********	7.00	6.00	**********
70/ 5/14 1050	**********	**********	**********	1.00	1.00	**********
70/ 5/15 1050	**********	**********	**********	2.00	2.00	**********
70/ 5/16 940	**********	**********	**********	4.00	3.00	**********
70/ 5/17 955	**********	**********	**********	40.00	40.00	**********
70/ 5/24 1025	**********	8.00	**********	**********	**********	**********
70/ 7/22 750	13.00	9.00	**********	**********	**********	**********
70/ 7/25 1010	**********	**********	**********	**********	4.00	27.00
70/ 7/26 1110	**********	**********	**********	**********	9.00	16.00
70/ 7/27 1000	**********	**********	**********	**********	5.00	21.00
70/ 7/28 1130	**********	**********	**********	**********	88.00	110.00
70/ 7/29 1125	**********	**********	**********	**********	10.00	45.00
70/ 8/ 2 905	13.00	8.00	**********	**********	**********	**********
ARITHMETIC MEAN	13.00	8.75	0.00	10.80	16.40	43.80
STD. DEVIATION	0.0078	0.9574	0.0000	16.4833	27.6292	38.5966
NO. OF VALUES	2	4	0	5	10	5

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 5712012.
TOWER CR. NEAR TOWER FALLS
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	10. WATER TEMP CENT	20. AIR TEMP CENT	3. VEAMPLOC DEPTH FEET	60. STREAM FLOW CUFT/SEC	300. DO MG/L	400. PH S U	403. LAB PH SU	95. CNDUCTVY AT 25C MICROMHO	78. TURB JKSN JU	418. T ALK CACO3 MG/L
70/ 5/ 9 919	4.00	3.00	**********	**********	10.10	7.50	7.50	86.00	1.00	40.00
70/ 5/24 1000	5.00	10.50	**********	**********	8.70	7.20	7.10	43.00	33.00	20.00
70/ 5/28 1050	3.00	14.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 7/22 730	8.00	13.00	**********	**********	9.40	7.50	7.40	64.00	0.40	31.00
70/ 7/25 745	7.00	10.50	**********	**********	**********	**********	**********	**********	**********	**********
70/ 7/26 1120	9.00	24.00	**********	**********	**********	**********	7.20	**********	0.60	31.00
70/ 7/27 745	7.50	8.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 7/28 1150	10.00	20.00	**********	**********	**********	**********	7.00	**********	0.50	32.00
70/ 7/29 1139	9.00	24.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 8/ 2 845	10.00	14.00	**********	**********	9.60	8.20	6.90	66.00	0.30	32.00
70/ 8/11 1200	8.00	32.00	**********	**********	**********	**********	7.60	**********	**********	**********
ARITHMETIC MEAN	6.40	15.81	0.00	0.00	9.45	7.60	7.24	69.75	6.10	32.16
STD. DEVIATION	3.3678	6.6265	0.0000	0.0000	0.5852	0.4243	0.2637	18.9058	13.1884	8.9806
NO. OF VALUES	11	11	0	0	4	4	7	6	6	6

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 11/16/70

STATION 5T1012
TOWER CR. NEAR TOWER FALLS
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	940 CHLORIDE Cl MG/L	945 SULFATE SO4 MG/L	300 BOD 2 DAY MG/L	310 BOD 5 DAY MG/L	610 AMMONIA NH3-N MG/L	625 TOT KJEL N MG/L	630 NO2&NO3 N MG/L	665 PHOS-T P-WET MG/L	70667 PHOS-T ORTHO MG/L-P	915 CALCIUM CA-DISS MG/L
70/ 9/ 8 915	2.00	4.00	**********	**********	0.01	0.51	0.03	0.03	0.02	4.00
70/ 9/24 1000	4.00	8.60	**********	**********	0.00	0.04	0.02	0.02	0.00	4.70
70/ 7/22 730	0.50	4.00	**********	**********	0.02	0.10	0.01	0.03	0.02	3.70
70/ 7/26 1120	**********	**********	0.20	0.60	**********	**********	**********	**********	**********	**********
70/ 7/28 1150	**********	**********	0.10	0.40	**********	**********	**********	**********	**********	**********
70/ 8/ 2 843	0.40	3.70	**********	**********	0.01	0.01	0.01	0.00	0.02	0.00
ARITHMETIC MEAN	2.22	4.17	0.15	0.50	0.01	0.06	0.01	0.04	0.01	3.60
STD. DEVIATION	2.6209	2.0072	0.0707	0.1414	0.0081	0.0802	0.0095	0.0270	0.0071	0.6679
NO. OF VALUES	4	4	2	2	4	4	4	4	4	4

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA, 11/16/78

STATION 06191200
TOWER CR. NEAR TOWER FALLS
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	0929 SODIUM NA,DISS MG/L	0932 POTASSIUM K,DISS MG/L	0950 FLUORIDE F,DISS MG/L	1020 BORON B,DISS UG/L	1040 COPPER CU UG/L	1045 IRON TOTAL UG/L	1055 MANGANESE MN UG/L	1090 ZINC ZN,DISS UG/L	1145 SELENIUM SE,DISS UG/L	9503 RA-226 DISSOLVED PC/L
76/ 9/ 9 915	7.10	1.40	0.00	**********	0.00+	0.00+	0.00+	0.00+**********	**********	**********
76/ 9/24 1500	4.68	1.15	0.30	**********	0.00+	400.00	0.00+	0.00+**********	**********	**********
76/ 7/22 730	4.30	1.30	0.30	**********	0.00+	0.00+	0.00+	0.00+**********	**********	**********
76/ 8/ 2 845	5.15	4.90	0.40	**********	0.00+	220.00	0.00+	0.00+**********	**********	**********
ARITHMETIC MEAN	5.27	2.22	0.25	0.00	0.00	155.00	0.00	0.00	0.00	0.00
STD. DEVIATION	1.2606	1.7914	0.1732	0.0000	0.0000	193.4767	0.0000	0.0000	0.0000	0.0000
NO. OF VALUES	4	4	4	0	4	4	4	4	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA, 11/16/70

STATION 971012.
TOWER CR. NEAR TOWER FALLS
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	925. MAGNESIUM MG.DISS MG/L	1009. BARIUM BA.DISS UG/L	1049. LEAD PB.DISS UG/L	720. CYANIDE CN MG/L	1000. ARSENIC AS.DISS UG/L	32730. PHENOLS UG/L	500. RESIDUE TOTAL MG/L	515. RESIDUE TOT FLT MG/L	22703. U-NAT DISOLVED UG/L
70/ 5/ 9 915	2.40	0.00+	0.00+**********	**********	**********	**********	98.00	83.00	**********
70/ 5/24 1000	2.00	0.00+	0.00 **********	**********	**********	**********	83.00	69.00	**********
70/ 7/22 730	1.90	0.00+	0.00+**********	**********	**********	**********	80.00	98.00	**********
70/ 8/ 2 849	2.20	0.00+	0.00+**********	**********	**********	**********	74.00	31.00	**********
ARITHMETIC MEAN	2.02	0.00	0.00	0.00	0.00	0.00	83.75	60.25	0.00
STD. DEVIATION	0.3862	0.0000	0.0000	0.0000	0.0000	0.0000	10.2196	22.0228	0.0000
NO. OF VALUES	4	4	4	0	0	0	4	4	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM-BACT, 11/16/70

STATION 471012:
TOWER CR. NEAR TOWER FALLS
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	00955 SILICA SI02 MG/L	00680 T ORG C C MG/L	28260 MBAS MG/L	31501 COLIFORM INDEMDO MF/100ML	31616 FEC COLI MF-C44.5 MF/100ML	31673 STPCOCCI KF AGR MF/100ML
70/ 5/ 0 915	**********	10.00	**********	**********	**********	**********
70/ 5/24 1800	**********	9.00	**********	**********	**********	**********
70/ 6/28 1030	**********	**********	**********	46.00	0.00	**********
70/ 7/22 730	31.00	9.00	**********	**********	**********	**********
70/ 7/25 745	**********	**********	**********	**********	1.00	9.00
70/ 7/26 1120	**********	**********	**********	**********	2.00	6.00
70/ 7/27 745	**********	**********	**********	**********	1.00	9.00
70/ 7/28 1150	**********	**********	**********	**********	1.00	2.00
70/ 7/29 1135	**********	**********	**********	**********	10.00	2.00
70/ 8/ 2 845	28.00	9.00	**********	**********	**********	**********
70/ 8/11 1200	**********	**********	**********	**********	1.00	48.00
ARITHMETIC MEAN	29.50	9.25	0.50	46.00	3.14	11.33
STD. DEVIATION	2.1214	0.5001	0.0000	0.0000	3.3321	16.0404
NO. OF VALUES	2	4	0	1	7	6

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 471012. YELLOWSTONE R. AT THE UPPER FALL
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	10. WATER TEMP CENT	20. AIR TEMP CENT	3. VSAMPLOC DEPTH FEET	60. STREAM FLOW CUFT/SEC	300. DO MG/L	400. PH S U	403. LAB PH SU	95. CNDUCTVY AT 25C MICROMHO	70. TURB JKSN JU	410. T ALK CACO3 MG/L
70/ 5/ 7 1135	0.00	7.00	*********	*********	8.70	6.90	7.60	137.00	4.50	34.00
70/ 5/13 1030	0.00	0.00	*********	*********	*********	*********	*********	*********	*********	*********
70/ 5/14 940	3.00	1.00	*********	*********	*********	*********	6.90	*********	*********	*********
70/ 5/15 925	4.00	5.00	*********	*********	*********	*********	*********	*********	*********	*********
70/ 5/16 930	5.00	11.00	*********	*********	*********	*********	6.80	*********	*********	*********
70/ 5/17 950	5.00	15.00	*********	*********	*********	*********	*********	*********	*********	*********
70/ 5/24 1340	8.50	21.00	*********	*********	7.80	6.80	6.90	73.00	4.90	14.00
70/ 5/26 755	2.00	5.00	*********	*********	*********	*********	*********	*********	*********	*********
70/ 7/19 1510	18.00	24.00	*********	*********	7.90	7.00	7.30	107.00	0.70	32.00
70/ 8/ 1 1115	19.00	24.00	*********	*********	8.60	7.50	7.10	118.00	0.80	33.00
70/ 8/10 845	15.00	15.00	*********	*********	*********	*********	7.20	*********	*********	*********
70/ 8/15 1300	*********	*********	*********	*********	*********	*********	7.30	*********	*********	*********
70/ 8/16 1015	15.00	17.00	*********	*********	*********	*********	*********	*********	*********	*********
70/ 8/17 735	14.50	6.00	*********	*********	*********	*********	7.20	*********	*********	40.00
70/ 8/18 1110	15.00	18.00	*********	*********	*********	*********	*********	*********	*********	*********
70/ 8/19 1043	15.00	19.00	*********	*********	*********	*********	*********	*********	*********	*********
ARITHMETIC MEAN	9.26	12.44	0.00	0.00	8.25	7.05	7.10	108.75	2.72	31.00
STD. DEVIATION	6.8579	8.3123	0.0000	0.0000	0.4655	0.3109	0.3241	26.8623	2.2867	10.0000
NO. OF VALUES	15	15	0	0	4	4	9	4	4	5

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 11/16/70

STATION 471013:
YELLOWSTONE R. AT THE UPPER FALL
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	940: CHLORIDE CL MG/L	945: SULFATE SO4 MG/L	304: BOD 2 DAY MG/L	310: BOD 5 DAY MG/L	610: AMMONIA NH3-N MG/L	625: TOT KJEL N MG/L	630: NO2&NO3 N MG/L	665: PHOS-T P-MET MG/L	70507: PHOS-T ORTHO MG/L-P	915: CALCIUM CA,DISS MG/L
70/ 5/ 7 1135	12.00	25.00	*********	*********	0.02	0.28	0.01	0.05	0.01	6.00
70/ 5/14 940	*********	*********	1.50	1.60	*********	*********	*********	*********	*********	*********
70/ 5/16 930	*********	*********	1.60	1.80	*********	**	*********	*********	*********	*********
70/ 5/24 1540	0.80	18.00	*********	*********	0.03	0.35	0.02	0.02	0.00	2.20
70/ 7/19 1510	6.00	12.00	*********	*********	0.00+	0.27	0.00+	0.03	0.03	3.30
70/ 8/ 1 1115	7.00	9.10	*********	*********	0.01	0.14	0.00+	0.07	0.02	4.60
70/ 8/10 845	*********	*********	0.60	1.00	*********	*********	*********	*********	*********	*********
ARITHMETIC MEAN	6.45	16.02	1.23	1.46	0.01	0.26	0.00	0.04	0.01	4.52
STD. DEVIATION	4.5909	7.0381	0.2507	0.4163	0.0129	0.0875	0.0095	0.0221	0.0094	1.8520
NO. OF VALUES	4	4	3	3	4	4	4	4	4	4

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA, 11/16/70

STATION 571013.
YELLOWSTONE R. AT THE UPPER FALL
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	930. SODIUM NA,DISS MG/L	935. PTSSIUM K,DISS MG/L	950. FLUORIDE F,DISS MG/L	1020. BORON B,DISS UG/L	1040. COPPER CU UG/L	1045. IRON TOTAL UG/L	1055. MANGNESE MN UG/L	1090. ZINC ZN,DISS UG/L	1145. SELENIUM SE,DISS UG/L	9503. RA-226 DISOLVED PC/L
70/ 5/ 7 1135	15.00	3.40	1.20	**********	0.00+	490.00	100.00	10.00	**********	**********
70/ 5/24 1540	8.80	2.80	0.50	**********	0.00+	400.00	100.00	0.00+	**********	**********
70/ 7/19 1510	11.00	2.60	0.70	**********	0.00+	120.00	0.00+	0.00+	**********	**********
70/ 8/ 1 1115	13.00	3.10	0.60	**********	0.00+	.00	0.00+	0.00+	**********	**********
ARITHMETIC MEAN	11.95	2.97	0.75	0.00	0.00	253.75	50.00	2.50	0.00	0.00
STD. DEVIATION	2.6602	0.3500	0.3109	0.0000	0.0000	187.8590	57.7349	4.9999	0.0000	0.0000
NO. OF VALUES	4	4	4	0	4	4	4	4	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 12/16/70

STATION 571013.
YELLOWSTONE R. AT THE UPPER FALL
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	929. MAGNESIUM MG.DISS MG/L	1005. BARIUM BA.DISS UG/L	1049. LEAD PB.DISS UG/L	720. CYANIDE CN MG/L	1000. ARSENIC AS.DISS UG/L	32730. PHENOLS UG/L	500. RESIDUE TOTAL MG/L	515. RESIDUE TOT FLT MG/L	22703. U-NAT DISOLVED UG/L
70/ 5/ 7 1139	2.30	0.00+	0.00+**********	**********	**********	**********	120.00	92.00	**********
70/ 6/24 1540	1.10	0.00+	0.00+**********	**********	**********	**********	112.00	80.00	**********
70/ 7/19 1510	2.80	0.00+	0.00+**********	**********	**********	**********	130.00	89.00	**********
70/ 8/ 1 1119	2.60	0.00+	0.00+**********	**********	**********	**********	219.00	143.00	**********
ARITHMETIC MEAN	2.20	0.00	0.00	0.00	0.00	0.00	172.25	101.00	0.00
STD. DEVIATION	0.7615	0.0000	0.0000	0.0000	0.0000	0.0000	98.4336	28.4823	0.0000
NO. OF VALUES	4	4	4	0	0	0	4	4	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM-BACT. 11/16/70

STATION 971013.
YELLOWSTONE R. AT THE UPPER FALL
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	955. SILICA SIO2 MG/L	680. T ORG C C MG/L	38260. MBAS MG/L	31501. COLIFORM IMEDENCO MF/100ML	31616. FEC COLI MF-C44.5 MF/100ML	31673. STPCOCCI KF AGR MF/100ML
70/ 5/ 7 1135	**********	15.00	**********	**********	**********	**********
70/ 5/13 1030	**********	**********	**********	10.00	2.00	**********
70/ 5/14 940	**********	**********	**********	7.00	3.00	**********
70/ 5/15 925	**********	**********	**********	10.00	5.00	**********
70/ 5/16 930	**********	**********	**********	28.00	20.00	**********
70/ 5/17 900	**********	**********	**********	22.00	22.00	**********
70/ 5/24 1340	**********	7.00	**********	**********	**********	**********
70/ 5/26 735	**********	**********	**********	240.00	120.00	**********
70/ 7/19 1510	120.00	9.00	**********	**********	**********	**********
70/ 8/ 1 1115	14.00	9.00	**********	**********	**********	**********
70/ 8/10 848	**********	**********	**********	**********	4.00	42.00
70/ 8/15 1300	**********	**********	**********	**********	6.00	32.00
70/ 8/16 1315	**********	**********	**********	**********	2.00	1.00
70/ 8/17 735	**********	**********	**********	**********	6.00	15.00
70/ 8/18 1110	**********	**********	**********	**********	3.00	20.00
70/ 8/19 1040	**********	**********	**********	**********	4.00	7.00
ARITHMETIC MEAN	67.00	10.00	0.00	52.83	19.41	19.50
STD. DEVIATION	74.9532	3.4641	0.0000	92.0529	33.3097	15.3720
NO. OF VALUES	2	4	0	6	12	6

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 471810.
YELLOWSTONE R. IN HAYDEN VALLEY
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	10. WATER TEMP CENT	20. AIR TEMP CENT	3. YSIMPLOC DEPTH FEET	60. STREAM FLOW CUFT/SEC	300. DO MG/L	400. PH S U	403. LAB PH SU	95. CNDUCTVY AT 25C MICROMHO	70. TURB JKSN JU	410. T ALK CACO3 MG/L
70/ 5/ 7 1055	0.00	7.00	**********	**********	8.70	6.70	7.00	102.00	1.00	38.00
70/ 5/24 1610	9.00	21.00	**********	**********	7.70	6.60	6.80	49.00	4.40	20.00
70/ 5/26 805	2.00	6.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 7/19 1450	18.00	26.00	**********	**********	8.40	7.00	7.30	90.00	0.70	29.00
70/ 8/ 1 1100	19.00	23.00	**********	**********	7.90	7.20	7.60	148.00	3.10	41.00
70/ 8/10 900	13.00	14.00	**********	**********	**********	**********	7.10	**********	**********	**********
70/ 8/15 1245	**********	**********	**********	**********	**********	**********	7.40	**********	**********	**********
70/ 8/16 1025	10.00	18.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 8/17 720	13.00	6.00	**********	**********	**********	**********	7.10	**********	**********	31.00
70/ 8/18 1125	19.00	22.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 8/19 1055	15.00	18.00	**********	**********	**********	**********	**********	**********	**********	**********
ARITHMETIC MEAN	11.40	16.10	0.00	0.00	8.17	6.87	7.10	102.25	2.30	31.80
STD. DEVIATION	6.0955	7.4731	0.0000	0.0000	0.4574	0.2754	0.2001	49.3584	1.7606	8.2280
NO. OF VALUES	10	10	0	0	4	4	7	4	4	5

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

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PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 11/16/70

STATION 6710A.
YELLOWSTONE R. IN HAYDEN VALLEY
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	940. CHLORIDE CL MG/L	945. SULFATE SO4 MG/L	304. BOD 2 DAY MG/L	310. BOD 5 DAY MG/L	610. AMMONIA NH3-N MG/L	625. TOT KJEL N MG/L	630. NO2&NO3 N MG/L	665. PHOS-T P-ET MG/L	70507. PHOS-T ORTHO MG/L-P	915. CALCIUM CA-DISS MG/L
70/ 5/ 7 1055	8.00	18.00	*********	*********	0.01	0.20	0.01	0.08	0.02	8.90
70/ 5/26 1610	2.80	12.00	*********	*********	0.09	0.50	0.01	0.02	0.01	3.10
70/ 7/19 1450	4.00	7.80	*********	*********	0.01	0.13	0.00+	0.03	0.03	6.90
70/ 8/ 1 1100	9.00	26.00	*********	*********	0.02	0.24	0.01	0.11	0.05	9.30
70/ 9/10 900	*********	*********	0.40	1.00	*********	*********	*********	*********	*********	*********
ARITHMETIC MEAN	4.75	15.95	0.40	1.00	0.01	0.26	0.00	0.06	0.02	8.05
STD. DEVIATION	2.6999	7.9000	0.0000	0.0000	0.0099	0.1615	0.0050	0.0424	0.0162	2.6652
NO. OF VALUES	4	4	1	1	4	4	4	4	4	4

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 471014.
YELLOWSTONE R. IN HAYDEN VALLEY
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	930. SODIUM NA.DISS MG/L	935. PTASSIUM K.DISS MG/L	950. FLUORIDE F.DISS MG/L.	1020. BORON B.DISS UG/L	1040. COPPER CU UG/L	1045. IRON TOTAL UG/L	1055. MANGNESE MN UG/L	1090. ZINC ZN.DISS UG/L	1145. SELENIUM SE.DISS UG/L	9503. RA-226 DISOLVED PC/L
70/ 5/ 7 1055	9.90	2.90	0.80 **********		0.00+	350.00	80.00	0.07 **********	**********	
70/ 5/26 1610	3.30	2.10	0.30 **********		0.00+	400.00	50.00	0.00+**********	**********	
70/ 7/19 1450	8.10	2.00	0.80 **********		0.00+	120.00	0.00+	0.00+**********	**********	
70/ 8/ 1 1100	15.00	4.00	2.90 **********		0.00+	140.00	0.00+	0.00+**********	**********	
ARITHMETIC MEAN	9.07	2.75	1.20	0.00	0.00	265.00	32.50	0.01	0.00	0.00
STD. DEVIATION	4.8334	0.9295	1.1575	0.0000	0.0000	131.7825	39.4757	0.0350	0.0000	0.0000
NO. OF VALUES	4	4	4	0	4	4	4	4	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA- 11/16/70

STATION 571014.
YELLOWSTONE R. IN HAYDEN VALLEY
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	925. MAGNESIUM MG.DISS MG/L	1005. BARIUM BA.DISS UG/L	1049. LEAD PB.DISS UG/L	720. CYANIDE CN MG/L	1000. ARSENIC AS.DISS UG/L	32730. PHENOLS UG/L	900. RESIDUE TOTAL MG/L	515. RESIDUE TOT FLT MG/L	22703. U-NAT DISOLVED UG/L
70/ 5/ 7 1055	2.70	0.00+	0.00**********	**********	**********		87.00	87.00	**********
70/ 5/26 1610	1.60	0.00+	0.00**********	**********	**********		54.00	47.00	**********
70/ 7/19 1450	2.80	0.00+	0.00**********	**********	**********		199.00	78.00	**********
70/ 8/ 1 1100	4.40	0.00+	0.00**********	**********	**********		353.00	193.00	**********
ARITHMETIC MEAN	2.87	0.00	0.00	0.00	0.00	0.00	173.25	101.25	0.00
STD. DEVIATION	1.1528	0.0000	0.0000	0.0000	0.0000	0.0000	134.9476	63.9209	0.0000
NO. OF VALUES	4	4	4	0	0	0	4	4	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM-BACT, 11/16/70

STATION 9710140
YELLOWSTONE R. IN HAYDEN VALLEY
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	955, SILICA $IO2 MG/L	680, T ORG C MG/L	38260, HBAS MG/L	31501, COLIFORM INEDENDO MF/100ML	31616, FEC COLI MF-C44.5 MF/100ML	31673, STPCOCCI KF AGR MF/100ML
70/ 9/ 7 1055	**********	11.00	**********	**********	**********	**********
70/ 9/24 1610	**********	8.00	**********	**********	**********	**********
70/ 9/26 805	**********	**********	**********	920.00	8.00	**********
70/ 7/19 1450	100.00	**********	**********	**********	**********	**********
70/ 8/ 1 1100	92.00	8.00	**********	**********	**********	**********
70/ 8/10 900	**********	**********	**********	**********	10.00	71.00
70/ 8/15 1249	**********	**********	**********	**********	4.00	11.00
70/ 8/16 1025	**********	**********	**********	**********	11.00	23.00
70/ 8/17 740	**********	**********	**********	**********	19.00	46.00
70/ 8/18 1125	**********	**********	**********	**********	8.00	25.00
70/ 8/19 1055	**********	**********	**********	**********	18.00	20.00
ARITHMETIC MEAN	76.00	9.00	0.00	920.00	10.42	27.66
STD. DEVIATION	33.941	1.7320	0.0000	0.0000	6.7207	9.7911
NO. OF VALUES	2	3	0	1	7	6

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 5Y6015.
YELLOWSTONE R. BELOW FISHING BR.
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	10. WATER TEMP CENT	20. AIR TEMP CENT	3. VSAMPLOC DEPTH FEET	60. STREAM FLOW CUFT/SEC	300. DO MG/L	400. PH S U	403. LAB PH SU	95. CNDUCTVY AT 25C MICROMHO	76. TURB JKSN JU	410. T ALK CACO3 MG/L
70/ 5/ 7 1025	0.00	4.00	**********	**********	8.60	7.60	7.40	94.00	0.60	34.00
70/ 5/13 950	0.00	0.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 5/14 915	1.00	1.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 5/15 950	1.00	2.00	**********	**********	**********	**********	7.00	**********	**********	**********
70/ 5/16 900	2.00	6.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 5/17 930	1.00	11.00	**********	**********	**********	**********	7.10	**********	**********	**********
70/ 5/24 1630	8.50	21.00	**********	**********	9.40	7.00	7.00	97.00	1.80	21.00
70/ 5/26 815	1.50	6.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 7/19 1435	17.00	26.00	**********	**********	8.10	7.10	7.30	92.00	0.70	29.00
70/ 8/ 1 1050	24.00	17.00	**********	**********	6.70	7.40	7.00	91.00	1.40	30.00
70/ 8/10 930	15.00	14.00	**********	**********	**********	**********	7.30	**********	**********	**********
70/ 8/15 1220	16.00	18.00	**********	**********	**********	**********	8.50	**********	**********	**********
70/ 8/16 1840	15.00	18.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 8/17 710	14.50	5.00	**********	**********	**********	**********	7.30	**********	**********	31.00
70/ 8/18 1135	15.00	22.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 8/19 1110	15.00	19.00	**********	**********	**********	**********	**********	**********	**********	**********
ARITHMETIC MEAN	9.19	11.87	0.00	0.00	8.20	7.22	7.32	83.50	1.12	29.00
STD. DEVIATION	8.0471	8.4764	0.0000	0.0000	1.1343	0.2062	0.4685	17.7106	0.5737	4.8477
NO. OF VALUES	14	14	0	0	4	4	9	4	4	5

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA, 11/16/70

STATION 5710150
YELLOWSTONE R. BELOW FISHING BR.
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	940, CHLORIDE CL MG/L	945, SULFATE SO4 MG/L	304, BOD 2 DAY MG/L	310, BOD 5 DAY MG/L	610, AMMONIA NH3-N MG/L	625, TOT KJEL N MG/L	630, NO2&NO3 N MG/L	665, PHOS-T P-WET MG/L	70507, PHOS-T ORTHO MG/L-P	915, CALCIUM CA,DISS MG/L
70/ 5/ 7 1025	4.00	10.00	**********	**********	0.01	0.34	0.01	0.05	0.02	5.50
70/ 5/14 915	**********	**********	1.30	1.20	**********	**********	**********	**********	**********	**********
70/ 5/14 900	**********	**********	0.60	0.60	**********	**********	**********	**********	**********	**********
70/ 5/26 1630	3.00	17.00	**********	**********	0.03	0.23	0.03	0.02	0.00	2.50
70/ 7/19 1433	4.00	9.00	**********	**********	0.04	0.29	0.00+	0.03	0.02	4.78
70/ 8/ 1 1050	4.00	6.50	**********	**********	0.04	0.32	0.00+	0.19	0.06	5.00
70/ 8/10 930	**********	**********	0.60	1.20	**********	**********	**********	**********	**********	**********
ARITHMETIC MEAN	4.25	10.62	0.83	1.00	0.03	0.29	0.01	0.07	0.02	4.42
STD. DEVIATION	1.2583	4.4976	0.4041	0.3464	0.0208	0.0479	0.0141	0.0793	0.0234	1.3250
NO. OF VALUES	4	4	3	3	4	4	4	4	4	4

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 11/16/70

STATION 271013.
YELLOWSTONE R. BELOW FISHING BR.
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	930. SODIUM NA,DISS MG/L	933. PTSSIUM K,DISS MG/L	950. FLUORIDE F,DISS MG/L	1020. BORON B,DISS UG/L	1040. COPPER CU UG/L	1045. IRON TOTAL UG/L	1055. MANGNESE MN UG/L	1090. ZINC ZN,DISS UG/L	1145. SELENIUM SE,DISS UG/L	9303. RA-226 DISOLVED PC/L
70/ 5/ 7 1025	9.50	1.70	0.60	**********	0.00+	0.00+	0.00+	0.00+**********	**********	
70/ 5/24 1630	5.10	1.90	0.40	**********	0.00+	250.00	10.00	0.00+**********	**********	
70/ 7/19 1435	8.00	2.00	0.60	**********	0.20+	0.00+	30.00	0.00+**********	**********	
70/ 8/ 1 1050	8.00	1.70	0.50	**********	0.00+	600.00	0.00+	0.00+**********	**********	
ARITHMETIC MEAN	7.65	1.82	0.52	0.00	0.00	212.50	10.00	0.00	0.00	0.00
STD. DEVIATION	1.8412	0.1500	0.0957	0.0000	0.0000	283.9450	14.1421	0.0000	0.0000	0.0000
NO. OF VALUES	4	4	4	0	4	4	4	4	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 471819.
YELLOWSTONE R. BELOW FISHING BR.
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	925. MAGNESIUM MG.DISS MG/L	1005. BARIUM BA.DISS UG/L	1049. LEAD PB.DISS UG/L	720. CYANIDE CN MG/L	1000. ARSENIC AS.DISS UG/L	32730. PHENOLS UG/L	500. RESIDUE TOTAL MG/L	515. RESIDUE TOT FLT MG/L	22703. U-NAT DISOLVED UG/L
70/ 5/ 7 1025	2.30	0.00+	0.00+**********	**********	**********		76.00	41.00	**********
70/ 5/24 1630	1.90	0.00+	0.00+**********	**********	**********		99.00	60.00	**********
70/ 7/19 1435	2.90	0.00+	0.00+**********	**********	**********		123.00	77.00	**********
70/ 8/ 1 1050	2.90	0.00+	0.00+**********	**********	**********		167.00	104.00	**********
ARITHMETIC MEAN	2.20	0.00	0.00	0.00	0.00	0.00	116.25	70.50	0.00
STD. DEVIATION	0.4760	0.0000	0.0000	0.0000	0.0000	0.0000	38.8963	26.7299	0.0000
NO. OF VALUES	4	4	4	0	0	0	4	4	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM-BACT. 11/16/70

STATION 471013.
YELLOWSTONE R. BELOW FISHING BR.
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	955. SILICA SIO2 MG/L	680. T ORG C MG/L	38260. MBAS MG/L	31501. COLIFORM IMEDENDO MF/100ML	31616. FEC COLI MF-C44.5 MF/100ML	31673. STPCOCCI KF AGR MF/100ML
70/ 5/ 7 1025	**********	11.00	**********	**********	**********	<**********
70/ 5/13 950	**********	**********	**********	3.00	1.00	**********
70/ 5/14 915	**********	**********	**********	2.00	1.00	**********
70/ 5/15 900	**********	**********	**********	1.00	1.00	<**********
70/ 5/16 900	**********	**********	**********	12.00	2.00	**********
70/ 5/17 930	**********	**********	**********	1.00-	1.00-	<**********
70/ 5/24 1630	**********	8.00	**********	**********	**********	**********
70/ 5/26 815	**********	**********	**********	3.00	2.00	**********
70/ 7/19 1435	68.00	10.00	**********	**********	**********	**********
70/ 8/ 1 1050	8.00	9.00	**********	**********	**********	**********
70/ 8/10 930	**********	**********	**********	**********	6.00	189.00
70/ 8/15 1220	**********	**********	**********	**********	2.00	200.00
70/ 8/16 1040	**********	**********	**********	**********	2.00	33.00
70/ 8/17 710	**********	**********	**********	**********	4.00	16.00
70/ 8/18 1135	**********	**********	**********	**********	4.00	210.00
70/ 8/19 1110	**********	**********	**********	**********	48.00	4.00
ARITHMETIC MEAN	46.00	9.50	0.00	3.66	6.16	109.33
STD. DEVIATION	56.5684	1.2910	0.0000	4.1793	13.2653	97.4179
#S OF VALUES	2	4	9	9	12	6

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA, 11/16/70

STATION 5716160
PELICAN CREEK NEAR MOUTH
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	10. WATER TEMP CENT	20. AIR TEMP CENT	3. VSAMPLOC DEPTH FEET	60. STREAM FLOW CUFT/SEC	300. DO MG/L	400. PH S U	403. LAB PH SU	95. CNDUCTVY AT 25C MICROMHO	70. TURB JKSN JU	410. T ALK CACO3 MG/L
70/ 9/ 7 800	1.00	4.00	**********	**********	9.10	7.30	7.40	282.00	20.00	78.00
70/ 9/24 1655	7.50	16.00	**********	**********	8.60	6.80	6.90	98.00	28.00	31.00
70/ 9/26 845	1.50	3.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 7/19 1410	19.00	24.00	**********	**********	6.80	7.00	7.30	224.00	4.20	44.00
70/ 7/30 1135	15.50	14.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 7/31 1340	16.00	22.00	**********	**********	**********	**********	7.60	**********	7.20	52.00
70/ 8/ 1 1085	18.00	**********	**********	**********	5.40	7.40	7.20	286.00	5.30	56.00
70/ 8/ 1 1190	17.00	18.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 8/ 2 1145	18.50	17.00	**********	**********	**********	**********	7.30	**********	8.00	54.00
70/ 8/ 3 1140	17.50	18.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 8/10 1036	15.00	15.00	**********	**********	**********	**********	7.40	**********	**********	**********
70/ 8/15 1015	14.50	13.00	**********	**********	**********	**********	7.50	**********	**********	**********
ARITHMETIC MEAN	13.41	15.09	0.00	0.00	7.47	7.12	7.32	222.49	12.11	52.83
STD. DEVIATION	6.4202	6.1955	0.0000	0.0000	1.6997	0.2754	0.2122	87.7022	9.6404	19.3489
NO. OF VALUES	12	11	0	0	4	4	6	4	4	4

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 471014.
PELICAN CREEK NEAR MOUTH
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	940. CHLORIDE CL MG/L	945. SULFATE SO4 MG/L	310. BOD 2 DAY MG/L	315. BOD 5 DAY MG/L	610. AMMONIA NH3-N MG/L	625. TOT KJEL N MG/L	630. NO2&NO3 N MG/L	665. PHOS-T P-WET MG/L	70507. PHOS-T ORTHO MG/L-P	915. CALCIUM CA.DISS MG/L
70/ 5/ 7 800	18.00	89.00	**********	**********	0.23	0.96	0.13	0.09	0.05	16.00
70/ 5/26 1458	4.00	23.00	**********	**********	0.06	0.47	0.03	0.01	0.00	4.60
70/ 7/19 1410	12.00	41.00	**********	**********	0.04	0.26	0.08	0.05	0.04	11.00
70/ 7/31 1340	**********	**********	0.80	1.20	**********	**********	**********	**********	**********	**********
70/ 8/ 1 1025	18.00	55.00	**********	**********	0.05	0.30	0.10	0.06	0.05	11.00
70/ 8/ 2 1145	**********	**********	0.80	1.40	**********	**********	**********	**********	**********	**********
ARITHMETIC MEAN	13.00	51.75	0.49	1.30	0.10	0.40	0.09	0.05	0.03	10.65
STD. DEVIATION	6.6332	27.4878	0.2121	0.1414	0.0842	0.1493	0.0336	0.0359	0.0206	4.6715
NO. OF VALUES	4	4	2	2	4	4	4	4	4	4

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 11/16/70

STATION 471016.
PELICAN CREEK NEAR MOUTH
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	930. SODIUM NA.DISS MG/L	933. POTASSIUM K.DISS MG/L	950. FLUORIDE F.DISS MG/L	1020. BORON B.DISS UG/L	1040. COPPER CU UG/L	1045. IRON TOTAL UG/L	1055. MANGANESE MN UG/L	1090. ZINC ZN.DISS UG/L	1145. SELENIUM SE.DISS UG/L	9503. RA-226 DISSOLVED PC/L
70/ 5/ 7 800	29.00	7.70	0.20 **********		0.00+	7800.00	220.00	0.00**********		**********
70/ 5/26 1655	8.00	3.60	0.00**********		0.00+	2600.00	190.00	0.00**********		**********
70/ 7/19 1410	21.00	6.20	0.30 **********		0.00+	1000.00	80.00	0.00**********		**********
70/ 8/ 1 1005	27.00	6.60	0.20 **********		0.00+	1400.00	60.00	0.00**********		**********
ARITHMETIC MEAN	21.25	6.02	0.17	0.00	0.00	1949.99	142.50	0.00	0.00	0.00
STD. DEVIATION	9.4648	1.7566	0.1258	0.0000	0.0000	885.0620	73.2006	0.0000	0.0000	0.0000
NO. OF VALUES	4	4	4	0	4	4	4	4	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA, 11/16/70

STATION 471016.
PELICAN CREEK NEAR MOUTH
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	923. MGNSIUM MG.DISS MG/L	1009. BARIUM BA.DISS UG/L	1049. LEAD PB.DISS UG/L	720. CYANIDE CN MG/L	1000. ARSENIC AS.DISS UG/L	32730. PHENOLS UG/L	500. RESIDUE TOTAL MG/L	515. RESIDUE TOT FLT MG/L	22703. U-NAT DISOLVED UG/L
70/ 5/ 7 800	8.80	0.00+	0.00+**********	**********	**********	279.00	248.00	**********
70/ 5/24 1655	4.40	0.00+	0.00+**********	**********	**********	257.00	89.00	**********
70/ 7/19 1410	6.70	0.00+	0.30+**********	**********	**********	195.00	186.00	**********
70/ 8/ 1 1309	6.20	0.00+	0.30+**********	**********	**********	420.00	283.00	**********
ARITHMETIC MEAN	6.52	0.00	0.00	0.00	0.00	0.00	287.75	201.50	0.00
STD. DEVIATION	1.8099	0.0000	0.0000	0.0000	0.0000	0.0000	99.0698	85.0910	0.0000
NO. OF VALUES	4	4	4	0	0	0	4	4	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM-BACT. 11/16/70

STATION ST1016.
PELICAN CREEK NEAR MOUTH
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	955. SILICA SI02 MG/L	680. T ORG C C MG/L	38260. MBAS MG/L	31501. COLIFORM IMEDENDO MF/100ML	31616. FEC COLI MF-C44.5 MF/100ML	31673. STPCOCCI KF AGR MF/100ML
70/ 5/ 7 [illegible]	**********	20.00	**********	**********	**********	**********
70/ 5/24 1655	**********	10.00	**********	**********	**********	**********
70/ 5/26 845	**********	**********	**********	200.00	100.00	**********
70/ 7/19 1410	44.00	12.00	**********	**********	**********	**********
70/ 7/30 1135	**********	**********	**********	**********	1.00-	0.00
70/ 7/31 1340	**********	**********	**********	**********	64.00	18.00
70/ 8/ 1 1009	56.00	14.00	**********	**********	**********	**********
70/ 8/ 1 1100	**********	**********	**********	**********	69.00	7.00
70/ 8/ 2 1145	**********	**********	**********	**********	61.00	18.00
70/ 8/ 3 1200	**********	**********	**********	**********	2.00	1.00
70/ 8/10 1030	**********	**********	**********	**********	7.00	14.00
70/ 8/15 1015	**********	**********	**********	**********	106.00	35.00
ARITHMETIC MEAN	50.00	14.00	0.00	200.00	90.79	14.42
STD. DEVIATION	8.4853	4.3205	0.0000	0.0000	42.6405	10.9978
NO. OF VALUES	2	4	0	1	8	7

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA 11/16/76

STATION 571017.
YELLOWSTONE LAKE IN BRIDGE BAY
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	10. WATER TEMP CENT	20. AIR TEMP CENT	3. VSAMPLOC DEPTH FEET	60. STREAM FLOW CUFT/SEC	300. DO MG/L	400. PH S U	403. LAB PH SU	99. CNDUCTVY AT 25C MICROMHO	70. TURB JKSN JU	410. T ALK CACO3 MG/L
70/ 5/ 7 1600	1.00	9.00	**********	**********	4.90	7.40	7.20	86.00	0.60	38.00
70/ 5/13 925	0.00	1.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 5/14 850	2.00	6.00	**********	**********	**********	**********	6.90	**********	**********	**********
70/ 5/15 845	1.00	0.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 5/16 840	2.00	4.00	**********	**********	**********	**********	7.00	**********	**********	**********
70/ 5/17 919	1.00	6.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 5/25 1135	5.00	19.00	**********	**********	7.20	6.60	6.60	78.00	2.00	27.00
70/ 5/26 1010	9.00	7.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 7/20 1150	**********	**********	**********	**********	8.10	6.60	7.20	90.00	0.70	29.00
70/ 7/23 1139	14.00	16.00	1.00	**********	**********	**********	**********	**********	**********	**********
70/ 7/23 1134	13.30	16.00	10.00	**********	**********	**********	**********	**********	**********	**********
70/ 7/30 1119	14.00	15.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 7/31 1230	15.00	18.00	**********	**********	**********	**********	7.40	**********	3.00	30.00
70/ 8/ 2 1210	16.00	19.00	**********	**********	**********	**********	7.10	**********	1.00	29.00
70/ 8/ 3 1200	15.00	17.00	**********	**********	**********	**********	7.30	89.00	0.90	30.00
70/ 8/10 850	15.00	10.00	**********	**********	**********	**********	**********	**********	**********	**********
ARITHMETIC MEAN	7.95	10.86	5.50	0.00	6.73	6.86	7.08	85.75	1.30	30.50
STD. DEVIATION	6.6119	6.6553	6.3639	0.0000	1.6502	0.4619	0.2533	5.4394	0.9959	3.8341
NO. OF VALUES	15	15	2	0	3	3	8	4	6	6

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 11/16/70

STATION 571017.
YELLOWSTONE LAKE IN BRIDGE BAY
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	940. CHLORIDE CL MG/L	945. SULFATE SO4 MG/L	304. BOD 2 DAY MG/L	310. BOD 5 DAY MG/L	610. AMMONIA NH3-N MG/L	625. TOT KJEL N MG/L	630. NO2&NO3 N MG/L	665. PHOS-T P-WET MG/L	70507. PHOS-T ORTHO MG/L-P	915. CALCIUM CA:DISS MG/L
70/ 5/ 7 1400	6.00	22.00	**********	**********	0.02	0.23	0.00+	0.06	0.03	5.60
70/ 5/14 850	**********	**********	1.00	1.40	**********	**********	**********	**********	**********	**********
70/ 5/16 840	**********	**********	1.00	0.90	**********	**********	**********	**********	**********	**********
70/ 5/25 1135	4.00	10.00	**********	**********	0.04	0.28	0.03	0.01	0.00	3.00
70/ 7/20 1150	4.00	8.50	**********	**********	0.01	0.19	0.00+	0.03	0.02	4.80
70/ 7/31 1230	**********	**********	0.50	1.40	**********	**********	**********	**********	**********	**********
70/ 8/ 2 1210	**********	**********	0.40	0.90	**********	**********	**********	**********	**********	**********
70/ 8/ 5 1200	4.00	8.00	**********	**********	0.00+	0.04	0.00+	0.03	0.02	5.00
ARITHMETIC MEAN	4.50	12.12	0.72	1.15	0.01	0.18	0.00	0.03	0.01	4.60
STD. DEVIATION	1.0000	6.6379	0.3201	0.2886	0.0170	0.1034	0.0150	0.0204	0.0110	1.1199
NO. OF VALUES	4	4	4	4	4	4	4	4	4	4

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA, 11/16/70

STATION 471017.
YELLOWSTONE LAKE IN BRIDGE BAY
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	930. SODIUM NA,DISS MG/L	939. PTSSIUM K,DISS MG/L	950. FLUORIDE F,DISS MG/L	1020. BORON B,DISS UG/L	1040. COPPER CU UG/L	1045. IRON TOTAL UG/L	1055. MANGANESE MN UG/L	1090. ZINC ZN,DISS UG/L	1145. SELENIUM SE,DISS UG/L	9503. RA-226 DISSOLVED PC/L
70/ 5/ 7 1600	10.00	2.20	1.00	**********	0.00+	200.00	30.00	20.00	**********	**********
70/ 5/25 1133	7.10	2.10	0.50	**********	0.00+	190.00	60.00	0.00+	**********	**********
70/ 7/20 1130	9.20	1.80	0.60	**********	0.00+	0.00+	0.00+	0.00+	**********	**********
70/ 8/ 3 1200	6.30	2.00	0.40	**********	0.00+	0.00+	0.00+	0.00+	**********	**********
ARITHMETIC MEAN	8.65	2.02	0.62	0.00	0.00	97.50	22.50	5.00	0.00	0.00
STD. DEVIATION	1.2450	0.1707	0.2629	0.0000	0.0000	103.0773	28.7227	9.9999	0.0000	0.0000
NO. OF VALUES	4	4	4	0	4	4	4	4	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

K9

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/18/76

STATION 9710170
YELLOWSTONE LAKE IN BRIDGE BAY
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	929. MAGNESIUM MG.DISS MG/L	1009. BARIUM BA.DISS UG/L	1049. LEAD PB.DISS UG/L	720. CYANIDE CN MG/L	1000. ARSENIC AS.DISS UG/L	32730. PHENOLS UG/L	900. RESIDUE TOTAL MG/L	919. RESIDUE TOT FLT MG/L	4270. URANIUM DISSOLVED UG/L
76/ 5/ 7 1600	2.60	0.00+	0.00	**********	**********	2.70	90.00	72.00	**********
76/ 5/25 1139	2.00	0.00+	0.00+	0.00	**********	0.90	84.00	67.00	**********
76/ 7/20 1150	1.60	0.00+	0.00	**********	**********	**********	178.00	99.00	**********
76/ 8/ 3 1200	2.00	0.00+	0.00	**********	**********	**********	54.00	19.00	**********
76/ 8/ 5 2210	**********	**********	**********	**********	**********	5.00	**********	**********	**********
76/ 9/ 5 2229	**********	**********	**********	**********	**********	5.00	**********	**********	**********
ARITHMETIC MEAN	2.05	0.00	0.00	0.00	0.00	3.40	101.50	63.50	0.00
STD. DEVIATION	0.4123	0.0000	0.0000	0.0000	0.0000	1.9383	53.3760	38.1838	0.0000
NO. OF VALUES	4	4	4	1	0	4	4	4	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM-BACT, 11/10/7

STATION 3710170
YELLOWSTONE LAKE IN BRIDGE BAY
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	00931 SILICA SIO2 MG/L	00681 T ORG C MG/L	50280 NH3+ORG N MG/L	31501 COLIFORM IMEDIMDO MF/100ML	31616 FEC COLI MF-Cmx.5 MF/100ML	31673 STPCOCCI EP AGR MF/100ML
70/ 5/ 7 1600	**********	10.00	**********	**********	**********	**********
70/ 5/13 900	**********	**********	**********	8.00	1.00**********	
70/ 5/13 921	**********	**********	**********	1.00	1.00**********	
70/ 5/13 1119	**********	**********	**********	1.00-	1.00**********	
70/ 5/14 830	**********	**********	**********	9.00	1.00**********	
70/ 5/14 852	**********	**********	**********	1.00	1.00 **********	
70/ 5/14 1030	**********	**********	**********	1.00-	1.00**********	
70/ 5/15 825	**********	**********	**********	11.00	1.00**********	
70/ 5/15 953	**********	**********	**********	1.00	1.00**********	
70/ 5/15 1005	**********	**********	**********	1.00-	1.00**********	
70/ 5/16 820	**********	**********	**********	2.00	1.00**********	
70/ 5/16 840	**********	**********	**********	3.00	1.00 **********	
70/ 5/16 1010	**********	**********	**********	1.00-	1.00**********	
70/ 5/17 900	**********	**********	**********	2.00	1.00**********	
70/ 5/17 915	**********	**********	**********	1.00-	1.00**********	
70/ 5/19 1030	**********	**********	**********	1.00-	1.00**********	
70/ 5/25 1135	**********	8.00	**********	**********	**********	**********
70/ 5/26 1010	**********	**********	**********	26.00	1.00**********	
70/ 7/20 1150	9.00	10.00	**********	**********	**********	**********
70/ 7/30 1115	**********	**********	**********	**********	2.00	6.00
70/ 7/31 1230	**********	**********	**********	**********	1.00-	2.00
70/ 8/ 1 1300	**********	**********	**********	**********	4.00	4.00
70/ 8/ 2 1210	**********	**********	**********	**********	4.00	2.00
70/ 8/ 3 1140	**********	**********	**********	**********	67.00	90.00
70/ 8/ 3 1200	10.00	8.00	**********	**********	**********	**********
70/ 8/10 850	**********	**********	**********	**********	1.00	7.00
ARITHMETIC MEAN	9.50	9.00	0.00	4.37	4.31	11.83
STD. DEVIATION	0.7071	1.1547	0.0000	6.6420	14.0284	18.6086
NO. OF VALUES	2	4	0	16	22	6

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 571018.
YELLOWSTONE LAKE NEAR DOT ISLAND
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	10. WATER TEMP CENT	20. AIR TEMP CENT	3. VSAMPLOC DEPTH FEET	60. STREAM FLOW CUFT/SEC	300. DO MG/L	400. PH S U	403. LAB PH SU	95. CNDUCTVT AT 25C MICROMHO	70. TURB JKSN JU	410. T ALK CACO3 MG/L
70/ 6/ 7 915	**********	**********	**********	**********	**********	**********	7.50	100.00	0.55	30.00
70/ 7/20 1019	**********	**********	**********	**********	7.70	7.00	7.40	89.00	0.60	28.00
70/ 7/23 1000	12.50	12.00	1.00	**********	**********	7.20	**********	**********	**********	**********
70/ 7/23 1001	12.20	12.00	5.00	**********	**********	**********	**********	**********	**********	**********
70/ 7/23 1002	11.80	12.00	10.00	**********	**********	**********	**********	**********	**********	**********
70/ 7/23 1003	11.40	12.00	20.00	**********	**********	**********	**********	**********	**********	**********
70/ 7/23 1004	11.40	12.00	25.00	**********	**********	**********	**********	**********	**********	**********
70/ 7/23 1005	11.40	12.00	30.00	**********	**********	**********	**********	**********	**********	**********
70/ 7/23 1006	10.60	12.00	40.00	**********	**********	**********	**********	**********	**********	**********
70/ 7/23 1007	9.40	12.00	50.00	**********	**********	**********	**********	**********	**********	**********
70/ 7/30 930	13.00	12.50	**********	**********	**********	**********	**********	**********	**********	**********
70/ 7/31 1010	13.50	14.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 8/ 1 1000	13.50	15.00	**********	**********	**********	**********	7.30	**********	4.60	29.00
70/ 8/ 2 925	13.50	14.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 8/ 3 940	13.50	13.00	**********	**********	**********	**********	7.40	**********	0.40	30.00
							7.30	81.00	0.30	29.00
ARITHMETIC MEAN	12.13	12.69	22.62	0.00	7.70	7.10	7.38	93.33	1.29	29.20
STD. DEVIATION	1.2660	1.0285	17.1375	0.0000	0.0000	0.1415	0.0839	5.8600	1.6541	0.8372
NO. OF VALUES	13	13	8	0	1	2	5	3	5	5

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 11/16/70

STATION 6T1018.
YELLOWSTONE LAKE NEAR DOT ISLAND
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	940. CHLORIDE CL MG/L	945. SULFATE SO4 MG/L	304. BOD 2 DAY MG/L	310. BOD 5 DAY MG/L	610. AMMONIA NH3-N MG/L	625. TOT K.JEL N MG/L	630. NO2&NO3 N MG/L	665. PHOS-T P-WET MG/L	70507. PHOS-T ORTHO MG/L-P	915. CALCIUM CA.0155 MG/L
70/ 6/ 7 915	5.00	8.70	**********	**********	0.03	0.28	0.02	0.17	0.05	4.50
70/ 7/20 1015	4.00	8.00	**********	**********	0.02	0.13	0.00+	0.02	0.02	4.70
70/ 7/31 1010	**********	**********	0.40	0.70	**********	**********	**********	**********	**********	**********
70/ 8/ 2 925	**********	**********	0.40	1.00	**********	**********	**********	**********	**********	**********
70/ 8/ 3 940	5.00	6.10	**********	**********	0.00+	0.13	0.00+	0.03	0.02	5.10
ARITHMETIC MEAN	4.66	7.60	0.40	0.85	0.01	0.18	0.00	0.07	0.03	4.76
STD. DEVIATION	0.5773	1.3453	0.0002	0.2121	0.0152	0.0866	0.0115	0.0838	0.0173	0.3055
NO. OF VALUES	3	3	2	2	3	3	3	3	3	3

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA, 11/16/70

STATION 471019.
YELLOWSTONE LAKE NEAR DOT ISLAND
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	930. SODIUM NA,DISS MG/L	935. POTASSIUM K,DISS MG/L	950. FLUORIDE F,DISS MG/L	1020. BORON B,DISS UG/L	1040. COPPER CU UG/L	1045. IRON TOTAL UG/L	1055. MANGANESE MN UG/L	1092. ZINC ZN,DISS UG/L	1147. SELENIUM SE,DISS UG/L	9508. RA-226 DISSOLVED PC/L
70/ 6/ 7 915	9.50	1.70	0.60	**********	**********	0.00+	0.00+	0.00+**********	**********	**********
70/ 7/20 1015	9.00	1.60	0.60	**********		0.00+	0.00+	30.00 **********	**********	**********
70/ 8/ 3 940	8.80	2.00	0.40	**********	0.00+	0.00+	0.00+	0.00+**********	**********	**********
ARITHMETIC MEAN	9.10	1.69	0.53	0.00	0.00	0.00	0.00	10.00	0.00	0.00
STD. DEVIATION	0.3606	0.1527	0.1134	0.0000	0.0000	0.0000	0.0000	17.3204	0.0000	0.0000
NO. OF VALUES	3	3	3	0	2	3	3	3	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 571018.
YELLOWSTONE LAKE NEAR DOT ISLAND
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	925. MGNSIUM MG.DISS MG/L	1005. BARIUM BA.DISS UG/L	1049. LEAD PB.DISS UG/L	720. CYANIDE CN MG/L	1000. ARSENIC AS.DISS UG/L	32730. PHENOLS UG/L	500. RESIDUE TOTAL MG/L	515. RESIDUE TOT FLT MG/L	22703. U-NAT DISOLVED UG/L
70/ 6/ 7 915	2.00	0.00+	0.00+**********	**********	**********	**********	65.00	64.00	**********
70/ 7/20 1015	2.10	0.00+	0.00+**********	**********	**********	**********	103.00	63.00	**********
70/ 8/ 3 940	2.00	0.00+	0.00+**********	**********	**********	**********	78.00	16.00	**********
ARITHMETIC MEAN	2.03	0.00	0.00	0.00	0.00	0.00	82.00	47.66	0.00
STD. DEVIATION	0.0577	0.0000	0.0000	0.0000	0.0000	0.0000	19.3132	27.4285	0.0000
NO. OF VALUES	3	3	3	0	0	0	3	3	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM-BACT. 11/16/70

STATION 571018.
YELLOWSTONE LAKE NEAR DOT ISLAND
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	955. SILICA SIO2 MG/L	680. Y ORG C C MG/L	38260. HBAS MG/L	31501. COLIFORM IMEDENDO MF/100ML	31616. FEC COLI MF-C44.5 MF/100ML	31673. STPCOCCI KF AGR MF/100ML
70/ 6/ 7 915	**********	8.00	**********	**********	**********	**********
70/ 7/20 1015	6.00	7.00	**********	**********	**********	**********
70/ 7/30 930	**********	**********	**********	**********	1.00-	1.00-
70/ 7/31 1010	**********	**********	**********	**********	1.00-	1.00-
70/ 8/ 1 1000	**********	**********	**********	**********	1.00-	1.00-
70/ 8/ 2 925	**********	**********	**********	**********	1.00-	2.00
70/ 8/ 3 940	10.00	8.00	**********	**********	1.00-	2.00
ARITHMETIC MEAN	8.00	7.66	0.00	0.00	1.00	1.40
STD. DEVIATION	2.8284	0.5773	0.0000	0.0000	0.0011	0.9477
NO. OF VALUES	2	3	0	0	5	5

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/73

STATION 571019.
YELLOWSTONE L. INLET TO MO. THUMB
MISSOURI RIVER
YELLOWSTONE RIVER

DATE	TIME	10. WATER TEMP CENT	20. AIR TEMP CENT	3. VSAMPLOC DEPTH FEET	60. STREAM FLOW CUFT/SEC	300. DO MG/L	400. PH S U	403. LAB PH SU	95. CNDUCTVY AT 25C MICROMHO	70. TURB JKSN JU	410. T ALK CACO3 MG/L
70/ 5/11	900	0.00	0.00	**********	**********	**********	**********				
70/ 5/13	900	0.00	0.00	**********	**********	**********	**********	7.80	72.00	0.40	28.00
70/ 5/14	830	0.00	1.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 5/15	825	0.00	4.00	**********	**********	**********	**********	6.60	**********	**********	**********
70/ 5/16	820	0.00	9.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 5/17	900	0.00	5.00	**********	**********	**********	**********	6.90	**********	**********	**********
70/ 5/25	1520	9.00	17.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 5/26	1025	2.00	9.00	**********	**********	10.10	7.20	6.60	64.00	4.10	19.00
70/ 6/ 7	930	**********	**********	**********	**********	**********	**********	**********	**********	**********	**********
70/ 7/20	950	**********	**********	**********	**********	**********	**********	7.60	182.00	0.44	32.00
70/ 7/23	1030	12.00	14.00	1.00	**********	**********	6.80	7.10	67.00	0.50	28.00
70/ 7/23	1031	11.10	14.00	20.00	**********	**********	7.20	**********	**********	**********	**********
70/ 7/23	1032	10.60	14.00	30.00	**********	**********	**********	**********	**********	**********	**********
70/ 7/23	1033	10.00	14.00	50.00	**********	**********	**********	**********	**********	**********	**********
70/ 7/30	1035	11.90	13.00	50.00	**********	**********	**********	**********	**********	**********	**********
70/ 7/30	1036	**********	**********	20.00	**********	**********	**********	**********	**********	**********	**********
70/ 7/31	1135	13.00	16.00	1.00	**********	**********	**********	**********	**********	**********	**********
70/ 7/31	1140	11.90	16.00	20.00	**********	**********	**********	7.50	**********	0.70	30.00
70/ 7/31	1145	7.50	16.00	50.00	**********	**********	**********	**********	**********	**********	**********
70/ 8/ 1	1120	14.00	18.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 8/ 2	1115	13.00	16.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 8/ 9	1040	12.00	13.00	**********	**********	**********	**********	7.90	**********	0.40	29.00
70/ 8/10	920	12.00	12.00	**********	**********	**********	**********	7.20	95.00	0.30	30.00
								**********	**********	**********	**********
ARITHMETIC MEAN		7.28	11.05	26.88	0.00	10.10	7.06	7.20	79.80	1.00	27.42
STD. DEVIATION		5.6228	5.9136	19.6687	0.0000	0.0000	0.2309	0.4289	28.1620	1.3716	5.6589
NO. OF VALUES		20	20	9	0	1	3	9	5	7	7

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 11/10/70

STATION 471019.
YELLOWSTONE L. INLET TO W. THUMB
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	940. CHLORIDE CL MG/L	945. SULFATE SO4 MG/L	304. BOD 2 DAY MG/L	310. BOD 5 DAY MG/L	610. AMMONIA NH3-N MG/L	625. TOT KJEL N MG/L	630. NO2&NO3 N MG/L	665. PHOS-T P-WET MG/L	70507. PHOS-T ORTHO MG/L-P	915. CALCIUM CA,DISS MG/L
70/ 9/11 900	7.00	10.00	**********	**********	0.00+	0.05	0.01	0.02	0.01	**********
70/ 9/14 830	**********	**********	1.90	2.70	**********	**********	**********	**********	**********	**********
70/ 9/16 820	**********	**********	0.80	0.80	**********	**********	**********	**********	**********	**********
70/ 5/28 1520	3.00	12.00	**********	**********	0.00+	.34	0.02	0.01	0.00	3.80
70/ 6/ 7 930	5.00	11.00	**********	**********	0.00+	.10	0.00+	0.23	0.05	4.80
70/ 6/25 950	4.00	7.00	**********	**********	0.02	0.08	0.00+	0.02	0.02	4.70
70/ 7/31 1135	**********	**********	0.30	0.40	**********	**********	**********	**********	**********	**********
70/ 8/ 2 1115	**********	**********	0.50	1.00	**********	**********	**********	**********	**********	**********
70/ 8/ 3 1040	5.00	6.70	**********	**********	0.00+	0.03	0.00+	0.03	0.03	5.10
ARITHMETIC MEAN	4.80	9.34	0.87	1.22	0.00	0.12	0.00	0.06	0.02	4.60
STD. DEVIATION	1.4832	2.3828	0.7135	1.0144	0.0089	0.1258	0.0089	0.0941	0.0188	0.5597
NO. OF VALUES	5	5	4	4	5	5	5	5	5	4

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 471019.
YELLOWSTONE L. INLET TO W. THUMB
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	930. SODIUM NA.DISS MG/L	939. PYSSIUM K.DISS MG/L	950. FLUORIDE F.DISS MG/L	1020. BORON B.DISS UG/L	1040. COPPER CU UG/L	1045. IRON TOTAL UG/L	1055. MANGANESE MN UG/L	1090. ZINC ZN.DISS UG/L	1145. SELENIUM SE.DISS UG/L	9503. RA-226 DISSOLVED PC/L
70/ 5/11 900	8.50	1.40	0.60	**********	0.00+	0.00+	0.00+	0.00+**********		**********
70/ 5/25 1320	4.10	1.20	0.20	**********	0.00+	300.00	0.00+	0.00+**********		**********
70/ 6/ 7 930	10.00	1.70	0.70	**********	**********	0.00+	0.00+	0.00+**********		**********
70/ 7/20 950	9.80	1.80	0.60	**********	0.00+	0.00+	0.00+	0.00+**********		**********
70/ 8/ 3 1040	9.40	2.00	0.80	**********	0.00+	0.00+	0.00+	0.00+**********		**********
ARITHMETIC MEAN	8.36	1.62	0.52	0.00	0.00	59.99	0.00	0.00	0.00	0.00
STD. DEVIATION	2.4501	0.3193	0.1923	0.0000	0.0000	134.1639	0.0000	0.0000	0.0000	0.0000
NO. OF VALUES	5	5	5	0	4	5	5	5	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 571019.
YELLOWSTONE R. INLET TO N. TWIN
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	925. MAGNESIUM MG.DISS MG/L	1005. BARIUM BA.DISS UG/L	1049. LEAD PB.DISS UG/L	720. CYANIDE CN MG/L	1000. ARSENIC AS.DISS UG/L	32730. PHENOLS UG/L	500. RESIDUE TOTAL MG/L	515. RESIDUE TOT FLT MG/L	22703. U-NAT DISSOLVED UG/L
70/ 5/11 900	2.00	0.00+	0.00+**********	**********	**********	**********	74.00	74.00	**********
70/ 5/25 1520	1.10	**********	0.00+**********	**********	**********	**********	86.00	56.00	**********
70/ 6/ 7 930	2.00	0.00+	0.00+**********	**********	**********	**********	63.00	60.00	**********
70/ 7/20 950	2.20	0.00+	0.00+**********	**********	**********	**********	123.00	107.00	**********
70/ 8/ 3 1040	2.00	0.00+	0.00+**********	**********	**********	**********	87.00	87.00	**********
ARITHMETIC MEAN	1.86	0.00	0.00	0.00	0.00	0.00	86.60	76.80	0.00
STD. DEVIATION	0.4335	0.0000	0.0000	0.0000	0.0000	0.0000	22.5899	20.8495	0.0000
NO. OF VALUES	5	4	5	0	0	0	5	5	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM-BACT. 11/16/70

STATION 471019.
YELLOWSTONE L. INLET TO W. THUMB
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	955. SILICA SIO2 MG/L	680. T ORG C C MG/L	38260. MBAS MG/L	31501. COLIFORM IMEDEADO MF/100ML	31616. FEC COLI MF-C44.5 MF/100ML	31673. STPCOCCI EF AGR MF/100ML
70/ 5/11 900	**********	8.00	**********	**********	**********	**********
70/ 5/25 1520	**********	7.00	**********	**********	**********	**********
70/ 5/26 1025	**********	**********	**********	53.00	10.00	**********
70/ 6/ 7 930	**********	7.00	**********	**********	**********	**********
70/ 7/20 950	6.00	7.00	**********	**********	**********	**********
70/ 7/30 1035	**********	**********	**********	**********	1.00-	40.00
70/ 7/30 1036	**********	**********	**********	**********	1.00-	1.00-
70/ 7/30 1037	**********	**********	**********	**********	1.00-	1.00
70/ 7/31 1139	**********	**********	**********	**********	1.00-	1.00-
70/ 7/31 1140	**********	**********	**********	**********	1.00-	15.00
70/ 7/31 1141	**********	**********	**********	**********	1.00-	4.00
70/ 8/ 1 1120	**********	**********	**********	**********	1.00-	1.00-
70/ 8/ 2 1115	**********	**********	**********	**********	1.00-	1.00-
70/ 8/ 3 1040	10.00	8.00	**********	**********	1.00-	1.00-
70/ 8/10 920	**********	**********	**********	**********	1.00-	86.00
ARITHMETIC MEAN	8.00	7.40	0.00	53.00	1.81	15.13
STD. DEVIATION	2.8284	0.5477	0.0000	0.0000	2.7135	27.8146
NO. OF VALUES	2	5	0	1	11	10

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA, 11/16/70

STATION 471020.
YELLOWSTONE L. IN MARY BAY AREA
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	10. WATER TEMP CENT	20. AIR TEMP CENT	3. VSAMPLOC DEPTH FEET	60. STREAM FLOW CUFT/SEC	300. DO MG/L	400. PH S U	403. LAB PH SU	95. CNDUCTVY AT 25C MICROMHO	70. TURB JKSN JU	410. T ALK CACO3 MG/L
70/ 5/ 7 815	11.00	4.00	**********	**********	7.40	6.20	6.60	171.00	1.00	45.00
70/ 5/13 1115	11.00	3.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 5/14 1030	15.00	9.00	**********	**********	**********	**********	9.40	**********	**********	**********
70/ 5/15 0	5.00	9.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 5/16 1010	12.00	10.00	**********	**********	**********	**********	6.00	**********	**********	**********
70/ 5/17 1030	14.00	13.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 5/24 845	8.50	4.00	**********	**********	9.00	5.90	6.00	133.00	1.50	27.00
70/ 5/26 910	8.50	6.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 7/19 1350	19.00	24.00	**********	**********	7.00	6.70	6.40	94.00	1.00	36.00
70/ 8/10 1050	17.50	16.50	**********	**********	**********	**********	**********	**********	**********	**********
70/ 8/15 955	17.00	12.00	**********	**********	**********	**********	7.30	**********	**********	**********
ARITHMETIC MEAN	12.59	10.04	0.00	0.00	7.80	6.26	6.28	132.66	1.16	42.00
STD. DEVIATION	4.3463	6.2468	0.0000	0.0000	1.0583	0.4041	0.6463	38.5011	0.2886	13.7477
NO. OF VALUES	11	11	0	0	3	3	6	3	3	3

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 471020.
YELLOWSTONE L. IN MARY BAY AREA
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	940. CHLORIDE CL MG/L	945. SULFATE SO4 MG/L	304. BOD 2 DAY MG/L	310. BOD 5 DAY MG/L	610. AMMONIA NH3-N MG/L	625. TOT KJEL N MG/L	630. NO2&NO3 N MG/L	665. PHOS-T P-ET MG/L	70507. PHOS-T ORTHO MG/L-P	915. CALCIUM CA-DISS MG/L
70/ 5/ 7 815	14.00	29.00	*********	*********	0.10	0.23	0.01	0.04	0.01	7.30
70/ 5/14 1050	*********	*********	1.40	1.50	*********	*********	*********	*********	*********	*********
70/ 5/16 1010	*********	*********	1.80	1.70	*********	*********	*********	*********	*********	*********
70/ 5/24 845	5.00	20.00	*********	*********	0.05	0.39	0.06	0.01	0.00	4.20
70/ 7/19 1350	4.00	11.00	*********	*********	0.00+	0.33	0.00+	0.03	0.13	4.90
70/ 8/10 1050	*********	*********	7.10	*********	*********	*********	*********	*********	*********	*********
ARITHMETIC MEAN	7.66	20.00	3.43	1.60	0.05	0.31	0.02	0.02	0.04	5.46
STD. DEVIATION	5.5075	8.9999	3.1817	0.1414	0.0500	0.0808	0.0321	0.0152	0.0696	1.6258
NO. OF VALUES	3	3	3	2	3	3	3	3	3	3

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA, 11/16/70

STATION 471020.
YELLOWSTONE L. IN HARY BAY AREA
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	930. SODIUM NA,DISS MG/L	935. POTASSIUM K,DISS MG/L	950. FLUORIDE F,DISS MG/L	1020. BORON B,DISS UG/L	1040. COPPER CU UG/L	1045. IRON TOTAL UG/L	1055. MANGANESE MN UG/L	1092. ZINC ZN,DISS UG/L	1145. SELENIUM SE,DISS UG/L	9302. GA-226 DISOLVED PC/L
70/ 5/ 7 819	20.00	3.20	0.80	**********	0.00+	550.00	20.00	0.00	**********	**********
70/ 5/24 849	14.00	2.70	0.50	**********	0.00+	150.00	700.00	0.00	**********	**********
70/ 7/19 1350	9.50	2.00	0.50	**********	0.00+	170.00	0.00+	0.00	**********	**********
ARITHMETIC MEAN	14.50	2.63	0.60	0.00	0.00	223.33	239.99	0.00	0.00	0.00
STD. DEVIATION	5.2678	0.6027	0.1732	0.0000	0.0000	110.1913	398.4967	0.0000	0.0000	0.0000
NO. OF VALUES	3	3	3	0	3	3	3	3	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CMLM DATA: 11/10/76

STATION 871020:
YELLOWSTONE R bl IR NEAR GAT AREA
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	929: MAGNESIUM MG:D156 MG/L	1009: BARIUM BA:D156 UG/L	1049: LEAD PB:D156 UG/L	720: CYANIDE CN MG/L	1000: ARSENIC AS:D156 UG/L	32730: PHENOLS UG/L	900: RESIDUE TOTAL MG/L	515: RESIDUE TOT FLT MG/L	32703: VANAT DISOLVED UG/L
70/ 9/ 7 815	0.00	0.000	0.000	**********	**********	**********	130.00	123.00	**********
70/ 9/20 840	0.00	0.000	0.000	**********	**********	**********	120.00	110.00	**********
76/ 9/19 1350	2.70	0.000	0.000	**********	**********	**********	**********	**********	**********
ARITHMETIC MEAN	0.23	0.00	0.00	0.00	0.00	0.00	120.00	116.50	0.00
STD. DEVIATION	0.00785	0.00000	0.00000	0.00000	0.00000	0.00000	2.8284	9.1620	0.0000
NO. OF VALUES	3	3	3	0	0	0	2	2	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM-BACT. 11/16/70

STATION 571020.
YELLOWSTONE L. IN MARY BAY AREA
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	955. SILICA SIO2 MG/L	680. T ORG C C MG/L	38260. MBAS MG/L	31501. COLIFORM IMEDENDO MF/100ML	31616. FEC COLI MF-C44.5 MF/100ML	31673. STPCOCCI KF AGR MF/100ML
70/ 5/ 7 815	**********	10.00	**********	**********	**********	**********
70/ 5/24 845	**********	12.00	**********	**********	**********	**********
70/ 5/26 910	**********	**********	**********	20.00	10.00	**********
70/ 7/19 1350	10.00	8.00	**********	**********	**********	**********
70/ 8/10 935	**********	**********	**********	**********	2.00	1.00-
70/ 8/10 1056	**********	**********	**********	**********	1.00-	4.00
ARITHMETIC MEAN	10.00	10.00	0.00	20.00	4.33	2.50
STD. DEVIATION	0.0000	2.0000	0.0000	0.0000	4.9328	2.1213
NO. OF VALUES	1	3	0	1	3	2

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA, 11/16/70

STATION 9710210
YELLOWSTONE L. IN FLAT HT. ARM
MISSOURI RIVER
YELLOWSTONE RIVER

DATE	TIME	10. WATER TEMP CENT	20. AIR TEMP CENT	3. VSAMPLOC DEPTH FEET	60. STREAM FLOW CUFT/SEC	300. DO MG/L	400. PH S U	403. LAB PH SU	99. CNDUCTVY AT 25C MICROMHO	78. TURB JKSN JU	410. T ALK CACO3 MG/L
70/ 6/ 7	950	**********	**********	**********	**********	**********	**********	7.60	96.00	0.39	29.00
70/ 7/20	930	**********	**********	**********	**********	8.40	6.90	7.20	93.00	0.40	30.00
70/ 7/23	930	12.50	10.00	1.00	**********	**********	7.20	**********	**********	**********	**********
70/ 7/23	931	12.20	10.00	5.00	**********	**********	**********	**********	**********	**********	**********
70/ 7/23	932	12.20	10.00	10.00	**********	**********	**********	**********	**********	**********	**********
70/ 7/23	933	11.10	10.00	20.00	**********	**********	**********	**********	**********	**********	**********
70/ 7/23	934	11.10	10.00	25.00	**********	**********	**********	**********	**********	**********	**********
70/ 7/23	935	11.10	10.00	30.00	**********	**********	**********	**********	**********	**********	**********
70/ 7/23	936	10.60	10.00	40.00	**********	**********	**********	**********	**********	**********	**********
70/ 7/23	937	9.40	10.00	50.00	**********	**********	**********	**********	**********	**********	**********
70/ 7/30	915	11.00	12.50	**********	**********	**********	**********	**********	**********	**********	**********
70/ 7/31	950	12.00	11.50	**********	**********	**********	**********	7.00	**********	0.50	30.00
70/ 8/ 1	945	12.00	15.50	**********	**********	**********	**********	**********	**********	**********	**********
70/ 8/ 2	910	13.50	13.00	**********	**********	**********	**********	7.60	**********	0.50	29.00
70/ 8/ 3	910	12.50	14.00	**********	**********	**********	**********	7.10	90.00	0.40	29.00
ARITHMETIC MEAN		11.63	11.26	22.62	0.00	8.40	7.05	7.30	93.66	0.43	29.40
STD. DEVIATION		1.0491	1.8887	17.1375	0.0000	0.0000	0.2122	0.2829	2.9176	0.0967	0.5482
NO. OF VALUES		13	13	8	0	1	2	5	3	5	5

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA 11/10/70

STATION 9710210
YELLOWSTONE L. IN FLAT MT. ARM
MISSOURI RIVER
YELLOWSTONE RIVER

DATE	TIME	900 CHLORIDE Cl MG/L	903 SULFATE SO4 MG/L	310 BOD 2 DAY MG/L	311 BOD 5 DAY MG/L	610 AMMONIA NH3-N MG/L	625 TOT KJEL N MG/L	630 NO2&NO3 N MG/L	665 PHOS-T P-wET MG/L	70507 PHOS-T ORTHO MG/L-P	915 CALCIUM CA,DISS MG/L
70/ 6/ 7	930	9.00	8.80	**********	**********	0.01	0.17	0.00+	0.18	0.06	4.30
70/ 7/20	930	9.00	9.60	**********	**********	0.01	0.13	0.00+	0.03	0.02	4.70
70/ 7/31	930	**********	**********	0.20	0.60	**********	**********	**********	**********	**********	**********
70/ 8/ 2	910	**********	**********	0.40	0.60	**********	**********	**********	**********	**********	**********
70/ 8/ 3	910	9.00	8.60	**********	**********	0.01	0.09	0.00+	0.03	0.01	5.10
ARITHMETIC MEAN		9.00	8.33	0.30	0.60	0.01	0.11	0.00	0.08	0.03	4.76
STD. DEVIATION		0.0001	1.5529	0.1414	0.0003	0.0000	0.0721	0.0000	0.0866	0.0264	0.3859
NO. OF VALUES		3	3	2	2	3	3	3	3	3	3

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 271021.
YELLOWSTONE L. IN FLAT HT. ARM
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	930. SODIUM NA.DISS MG/L	935. PTSSIUM K.DISS MG/L	950. FLUORIDE F.DISS MG/L	1020. BORON B.DISS UG/L	1040. COPPER CU UG/L	1045. IRON TOTAL UG/L	1055. MANGNESE MN UG/L	1090. ZINC ZN.DISS UG/L	1145. SELENIUM SE.DISS UG/L	9903. RA-226 DISOLVED PC/L
70/ 6/ 7 950	9.50	1.70	0.60	**********	**********	0.00+	0.00+	0.00+	**********	**********
70/ 7/28 930	10.00	1.80	0.60	**********	0.00+	0.00+	0.00+	0.00+	**********	**********
70/ 8/ 3 910	9.20	2.00	0.50	**********	0.00+	0.00+	0.00+	0.00+	**********	**********
ARITHMETIC MEAN	9.56	1.83	0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STD. DEVIATION	0.4042	0.1527	0.0577	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NO. OF VALUES	3	3	3	0	2	3	3	3	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA 11/16/70

STATION 571021
YELLOWSTONE Lk IN FLAT MT, ARM
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	925 MGNSIUM PG,DISS MG/L	1005 BARIUM BA,DISS UG/L	1049 LEAD PB,DISS UG/L	720 CYANIDE CN MG/L	1000 ARSENIC AS,DISS UG/L	32730 PHENOLS UG/L	500 RESIDUE TOTAL MG/L	515 RESIDUE TOT FLT MG/L	22703 U-NAT DISOLVED UG/L
70/ 6/ 7 950	2.00	0.00+	0.00**********	**********	**********	63.00	57.00	**********	
70/ 7/20 930	2.20	0.00+	0.00**********	**********	**********	194.00	72.00	**********	
70/ 8/ 3 910	2.00	0.00+	0.00**********	**********	**********	70.00	67.00	**********	
ARITHMETIC MEAN	2.06	0.00	0.00	0.00	0.00	0.00	95.66	65.33	0.00
STD. DEVIATION	0.1154	0.0000	0.0000	0.0000	0.0000	0.0000	50.6392	7.6377	0.0000
NO. OF VALUES	3	3	3	0	0	0	3	3	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM-BACT. 11/16/70

STATION 271021.
YELLOWSTONE L. IN FLAT MT. ARM
MISSOURI RIVER
YELLOWSTONE RIVER

DATE	TIME	955. SILICA SIO2 MG/L	680. T ORG C C MG/L	38260. MBAS MG/L	31501. COLIFORM IMEDENDO MF/100ML	31616. FEC COLI MF-C44.5 MF/100ML	31673. STPCOCCI KF AGR MF/100ML
70/ 6/ 7	950	**********	9.00	**********	**********	**********	**********
70/ 7/28	930	6.00	8.00	**********	**********	**********	**********
70/ 7/30	915	**********	**********	**********	**********	1.00-	1.00-
70/ 7/31	950	**********	**********	**********	**********	1.00-	1.00-
70/ 8/ 1	945	**********	**********	**********	**********	1.00-	4.00
70/ 8/ 2	910	**********	**********	**********	**********	1.00-	1.00-
70/ 8/ 3	910	9.00	8.00	**********	**********	1.00-	1.00-
ARITHMETIC MEAN		7.50	8.33	0.00	0.00	1.00	1.60
STD. DEVIATION		2.1213	0.5774	0.0000	0.0000	0.0011	1.3416
NO. OF VALUES		2	3	0	0	5	5

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 971022.
YELLOWSTONE L. AT SOUTH ARM
MISSOURI RIVER
YELLOWSTONE RIVER

DATE	TIME	10. WATER TEMP CENT	20. AIR TEMP CENT	3. VSAMPLOC DEPTH FEET	60. STREAM FLOW CUFT/SEC	300. DO MG/L	400. PH S U	403. LAB PH SU	95. CNDUCTVY AT 25C MICROMHO	70. TURB JKSN JU	410. T ALK CACO3 MG/L
70/ 6/ 7	1005	**********	**********	**********	**********	**********	**********	7.30	100.00	0.32	31.00
70/ 7/20	915	**********	**********	**********	**********	**********	6.90	7.50	94.00	0.40	30.00
70/ 7/23	910	13.50	9.50	1.00	**********	**********	7.20	**********	**********	**********	**********
70/ 7/23	911	13.50	9.50	5.00	**********	**********	**********	**********	**********	**********	**********
70/ 7/23	912	13.30	9.50	10.00	**********	**********	**********	**********	**********	**********	**********
70/ 7/23	913	12.20	9.50	20.00	**********	**********	**********	**********	**********	**********	**********
70/ 7/23	914	8.90	9.50	25.00	**********	**********	**********	**********	**********	**********	**********
70/ 7/23	915	7.80	9.50	30.00	**********	**********	**********	**********	**********	**********	**********
70/ 7/23	916	6.10	9.50	40.00	**********	**********	**********	**********	**********	**********	**********
70/ 7/23	917	5.70	9.50	50.00	**********	**********	**********	**********	**********	**********	**********
70/ 7/30	855	13.00	14.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 7/31	930	13.00	11.50	**********	**********	**********	**********	**********	**********	**********	**********
70/ 8/ 1	920	13.00	15.00	**********	**********	**********	**********	7.40	**********	0.40	30.00
70/ 8/ 2	900	13.50	11.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 8/ 3	830	13.50	10.00	**********	**********	**********	**********	7.20	**********	0.40	29.00
								7.50	92.00	0.30	30.00
ARITHMETIC MEAN		11.30	10.57	22.62	0.00	0.00	7.05	7.38	95.33	0.36	30.00
STD. DEVIATION		3.0173	1.8891	17.1375	0.0000	0.0000	0.2122	0.1305	4.1637	0.0498	0.7077
NO. OF VALUES		13	13	8	0	0	2	5	3	5	5

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 571022. YELLOWSTONE L. AT SOUTH ARM
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	940. CHLORIDE CL MG/L	945. SULFATE SO4 MG/L	304. BOD 2 DAY MG/L	310. BOD 5 DAY MG/L	610. AMMONIA NH3-N MG/L	625. TOT KJEL N MG/L	630. NO2&NO3 N MG/L	665. PHOS-T P-WET MG/L	70507. PHOS-T ORTHO MG/L-P	919. CALCIUM CA.DISS MG/L
70/ 6/ 7 1005	5.00	9.60	**********	**********	0.04	0.23	0.02	0.20	0.03	4.90
70/ 7/20 915	5.00	7.80	**********	**********	0.02	0.18	0.00+	0.03	0.02	4.80
70/ 7/31 930	**********	**********	0.20	0.40	**********	**********	**********	**********	**********	**********
70/ 8/ 2 900	**********	**********	0.60	1.10	**********	**********	**********	**********	**********	**********
70/ 8/ 3 850	5.00	6.10	**********	**********	0.01	0.02	0.00+	0.03	0.02	5.10
ARITHMETIC MEAN	5.00	7.83	0.40	0.75	0.02	0.14	0.00	0.08	0.02	4.80
STD. DEVIATION	0.0031	1.7502	0.2828	0.4949	0.0152	0.1096	0.0115	0.0981	0.0057	0.1000
NO. OF VALUES	3	3	2	2	3	3	3	3	3	3

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA, 11/16/70

STATION 971022.
YELLOWSTONE L. AT SOUTH ARM
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	930. SODIUM NA,DISS MG/L	935. PYSSIUM K,DISS MG/L	950. FLUORIDE F,DISS MG/L	1020. BORON B,DISS UG/L	1040. COPPER CU UG/L	1045. IRON TOTAL UG/L	1055. MANGNESE MN UG/L	1090. ZINC ZN,DISS UG/L	1145. SELENIUM SE,DISS UG/L	9503. RA-226 DISOLVED PC/L
70/ 6/ 7 1005	9.50	1.70	0.60	**********	**********	0.00+	0.00+	0.00+**********	**********	**********
70/ 7/20 915	10.00	1.80	0.60	**********	0.00+	0.00+	0.00+	0.00+**********	**********	**********
70/ 8/ 3 850	9.30	2.00	0.60	**********	0.00+	0.00+	0.00+	0.00+**********	**********	**********
ARITHMETIC MEAN	9.60	1.83	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STD. DEVIATION	0.3606	0.1527	0.0004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NO. OF VALUES	3	3	3	0	2	3	3	3	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA, 11/16/70

STATION 971022.
YELLOWSTONE L. AT SOUTH ARM
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	929. MGNSIUM MG.DISS MG/L	1009. BARIUM BA.DISS UG/L	1049. LEAD PB.DISS UG/L	720. CYANIDE CN MG/L	1000. ARSENIC AS.DISS UG/L	32730. PHENOLS UG/L	500. RESIDUE TOTAL MG/L	515. RESIDUE TOT FLT MG/L	22703. U-NAT DISOLVED UG/L
70/ 6/ 7 1005	2.10	0.00+	0.00	**********	**********	**********	69.00	61.00	**********
70/ 7/20 915	2.40	0.00+	0.00	**********	**********	**********	127.00	76.00	**********
70/ 8/ 3 850	2.00	0.00+	0.00	**********	**********	**********	80.00	62.00	**********
ARITHMETIC MEAN	2.16	0.00	0.00	0.00	0.00	0.00	90.66	67.00	0.00
STD. DEVIATION	0.2081	0.0000	0.0000	0.0000	0.0000	0.0000	32.3471	9.5395	0.0000
NO. OF VALUES	3	3	3	0	0	0	3	3	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM-BACT. 11/16/70

STATION 971022.
YELLOWSTONE Lk AT SOUTH ARM
MISSOURI RIVER
YELLOWSTONE RIVER

DATE	TIME	955. SILICA SIO2 MG/L	680. T ORG C C MG/L	38260. MBAS MG/L	31501. COLIFORM IMEDENDO MF/100ML	31616. FEC COLI MF-C44.5 MF/100ML	31673. STPCOCCI KF AGR MF/100ML
70/ 6/ 7	1005	**********	8.00	**********	**********	**********	**********
70/ 7/30	835	**********	**********	**********	**********	1.00-	1.00-
70/ 7/31	930	**********	**********	**********	**********	1.00-	1.00-
70/ 8/ 1	920	**********	**********	**********	**********	1.00-	1.00-
70/ 8/ 2	900	**********	**********	**********	**********	1.00-	1.00-
70/ 8/ 3	850	9.00	**********	**********	**********	1.00-	1.00-
ARITHMETIC MEAN		9.00	8.00	0.00	0.00	1.00	1.00
STD. DEVIATION		0.0000	0.0000	0.0000	0.0000	0.0011	0.0011
NO. OF VALUES		1	1	0	0	5	5

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 11/16/70

STATION 5715823.
YELLOWSTONE LAKE AT S. EAST ARM
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	10. WATER TEMP CENT	20. AIR TEMP CENT	3. VSAMPLOC DEPTH FEET	60. STREAM FLOW CUFT/SEC	300. DO MG/L	400. PH S U	403. LAB PH SU	95. CNDUCTVY AT 25C MICROMHO	70. TURB JKSN JU	410. T ALK CACO3 MG/L
70/ 6/ 7 1020	**********	**********	**********	**********	**********	**********	7.40	97.00	1.20	29.00
70/ 7/20 840	**********	**********	**********	**********	8.10	7.00	7.30	72.00	0.80	29.00
70/ 7/23 840	13.80	10.00	1.00	**********	**********	7.20	**********	**********	**********	**********
70/ 7/23 841	13.50	10.00	5.00	**********	**********	**********	**********	**********	**********	**********
70/ 7/23 842	13.50	10.00	10.00	**********	**********	**********	**********	**********	**********	**********
70/ 7/23 843	13.30	10.00	20.00	**********	**********	**********	**********	**********	**********	**********
70/ 7/23 844	11.40	10.00	30.00	**********	**********	**********	**********	**********	**********	**********
70/ 7/23 845	9.40	10.00	40.00	**********	**********	**********	**********	**********	**********	**********
70/ 7/23 846	8.30	10.00	50.00	**********	**********	**********	**********	**********	**********	**********
70/ 7/30 825	13.50	13.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 7/31 845	12.00	9.00	**********	**********	**********	**********	7.40	**********	1.70	27.00
70/ 8/ 1 845	12.00	14.00	1.00	**********	**********	**********	**********	**********	**********	**********
70/ 8/ 1 850	11.00	14.00	20.00	**********	**********	**********	**********	**********	**********	**********
70/ 8/ 1 855	9.40	14.00	90.00	**********	**********	**********	**********	**********	**********	**********
70/ 8/ 2 835	13.00	11.00	1.00	**********	**********	**********	8.00	**********	1.00	27.00
70/ 8/ 2 836	**********	**********	20.00	**********	**********	**********	**********	**********	**********	**********
70/ 8/ 2 837	**********	**********	90.00	**********	**********	**********	**********	**********	**********	**********
70/ 8/ 3 825	13.50	9.00	**********	**********	**********	**********	7.00	75.00	0.50	27.00
ARITHMETIC MEAN	11.73	11.00	22.92	0.00	8.10	7.10	7.24	81.33	1.04	27.00
STD. DEVIATION	2.2559	1.8811	19.3582	0.0000	0.0000	0.1415	0.2882	13.6505	0.4505	1.4144
NO. OF VALUES	14	14	13	0	1	2	5	3	5	5

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 571023.
YELLOWSTONE LAKE AT S. EAST ARM
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	940. CHLORIDE CL MG/L	945. SULFATE SO4 MG/L	304. BOD 2 DAY MG/L	310. BOD 5 DAY MG/L	610. AMMONIA NH3-N MG/L	625. TOT KJEL N MG/L	630. NO2&NO3 N MG/L	665. PHOS-T P-WET MG/L	70507. PHOS-T ORTHO MG/L-P	915. CALCIUM CA,DISS MG/L
70/ 6/ 7 1020	5.00	9.50	**********	**********	0.01	0.01	0.03	0.24	0.05	4.50
70/ 7/20 840	2.00	6.30	**********	**********	0.03	0.24	0.00+	0.03	0.02	4.40
70/ 7/31 845	**********	**********	0.40	0.90	**********	**********	**********	**********	**********	**********
70/ 8/ 2 835	**********	**********	0.40	0.80	**********	**********	**********	**********	**********	**********
70/ 8/ 3 825	3.00	7.10	**********	**********	0.01	0.04	0.00+	0.04	0.03	4.70
ARITHMETIC MEAN	3.33	7.63	0.40	0.85	0.01	0.09	0.01	0.10	0.03	4.53
STD. DEVIATION	1.5275	1.6453	0.0002	0.0707	0.0115	0.1250	0.0173	0.1184	0.0152	0.1527
NO. OF VALUES	3	3	2	2	3	3	3	3	3	3

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA, 11/16/70

STATION 271023.
YELLOWSTONE LAKE AT S. EAST ARM
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	930. SODIUM NA,DISS MG/L	935. PTSSIUM K,DISS MG/L	950. FLUORIDE F,DISS MG/L	1020. BORON B,DISS UG/L	1040. COPPER CU UG/L	1045. IRON TOTAL UG/L	1055. MANGNESE MN UG/L	1090. ZINC ZN,DISS UG/L	1145. SELENIUM SE,DISS UG/L	9503. RA-226 DISOLVED PC/L
70/ 6/ 7 1020	9.00	1.70	*********	*********	*********	100.00	0.00+	0.00+**********	**********	
70/ 7/20 840	7.00	1.50	0.40	*********	0.00+	0.00+	0.00+	0.00+**********	**********	
70/ 8/ 3 825	6.80	3.50	0.50	*********	0.00+	120.00	0.00+	0.00+**********	**********	
ARITHMETIC MEAN	7.60	2.23	0.45	0.00	0.00	73.33	0.00	0.00	0.00	0.00
STD. DEVIATION	1.2165	1.1015	0.0707	0.0000	0.0000	64.2909	0.0000	0.0000	0.0000	0.0000
NO. OF VALUES	3	3	2	0	2	3	3	3	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 971023.
YELLOWSTONE LAKE AT S. EAST ARM
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	929. MGNSIUM MG.DISS MG/L	1005. BARIUM BA.DISS UG/L	1049. LEAD PB.DISS UG/L	720. CYANIDE CN MG/L	1000. ARSENIC AS.DISS UG/L	32730. PHENOLS UG/L	930. RESIDUE TOTAL MG/L	915. RESIDUE TOT FLT MG/L	22703. U-NAT DISOLVED UG/L
70/ 6/ 7 1020	2.10	**********	0.00+**********	**********	**********	**********	67.00	63.00	**********
70/ 7/20 840	1.70	0.00+	0.00+**********	**********	**********	**********	**********	**********	**********
70/ 8/ 3 825	1.73	0.00+	0.00+**********	**********	**********	**********	78.00	61.00	**********
ARITHMETIC MEAN	1.83	0.00	0.00	0.00	0.00	0.00	72.50	62.00	0.00
STD. DEVIATION	0.2309	0.0000	0.0000	0.0000	0.0000	0.0000	7.7783	1.4142	0.0000
NO. OF VALUES	3	2	3	0	0	0	2	2	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM-BACT. 11/16/70

STATION 571023.
YELLOWSTONE LAKE AT S. EAST ARM
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	955. SILICA SIO2 MG/L	680. T ORG C C MG/L	38260. MBAS MG/L	31501. COLIFORM IMEDENDO MF/100ML	31616. FEC COLI MF-C44.5 MF/100ML	31673. STPCOCCI KF AGR MF/100ML
70/ 6/ 7 1020	**********	9.00	**********	**********	**********	**********
70/ 7/20 840	11.00	9.00	**********	**********	**********	**********
70/ 7/30 825	**********	**********	**********	**********	1.00-	1.00
70/ 7/31 845	**********	**********	**********	**********	2.00	2.00
70/ 8/ 1 845	**********	**********	**********	**********	1.00-	2.00
70/ 8/ 1 850	**********	**********	**********	**********	1.00-	6.00
70/ 8/ 1 855	**********	**********	**********	**********	1.00-	6.00
70/ 8/ 2 835	**********	**********	**********	**********	1.00-	1.00-
70/ 8/ 2 836	**********	**********	**********	**********	1.00-	1.00-
70/ 8/ 2 837	**********	**********	**********	**********	1.00	1.00
70/ 8/ 3 825	12.00	8.00	**********	**********	1.00-	1.00
ARITHMETIC MEAN	11.50	8.66	0.00	0.00	1.11	2.33
STD. DEVIATION	0.7071	0.5774	0.0000	0.0000	0.3333	2.1213
NO. OF VALUES	2	3	0	0	9	9

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 571024.
YELLOWSTONE L WHERE RIVER ENTERS
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	10. WATER TEMP CENT	20. AIR TEMP CENT	3. VSAMPLOC DEPTH FEET	60. STREAM FLOW CUFT/SEC	300. DO MG/L	400. PH S U	403. LAB PH SU	95. CNDUCTVY AT 25C MICROMHO	70. TURB JKSN JU	410. T ALK CACO3 MG/L
70/ 7/20 820	**********	10.00	**********	**********	7.10	6.90	7.10	58.00	1.00	24.00
70/ 7/23 820	9.00	10.00	**********	**********	**********	7.20	**********	**********	**********	**********
70/ 7/31 825	11.00	9.00	**********	**********	**********	**********	7.40	**********	1.70	23.00
70/ 8/ 1 825	12.50	15.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 8/ 2 815	13.00	11.50	**********	**********	**********	**********	7.20	**********	13.00	24.00
70/ 8/ 3 810	13.00	7.00	**********	**********	**********	**********	7.20	37.00	0.80	24.00
ARITHMETIC MEAN	11.70	10.41	0.00	0.00	7.10	7.05	7.22	47.50	4.12	23.75
STD. DEVIATION	1.7175	2.6910	0.0000	0.0000	0.0000	0.2122	0.1260	14.8492	5.9292	0.5003
NO. OF VALUES	5	6	0	0	1	2	4	2	4	4

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 11/16/70

STATION 471822.
YELLOWSTONE L WHERE RIVER ENTERS
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	940. CHLORIDE CL MG/L	945. SULFATE SO4 MG/L	304. BOD 2 DAY MG/L	310. BOD 5 DAY MG/L	610. AMMONIA NH3-N MG/L	625. TOT KJEL N MG/L	630. NO2&NO3 N MG/L	665. PHOS-T P-WET MG/L	72567. PHOS-T ORTHO MG/L-P	915. CALCIUM CA-DISS MG/L
70/ 7/20 820	1.00	7.20	**********	**********	0.00+	0.17	0.60+	0.07	0.03	4.40
70/ 7/31 825	**********	**********	0.50	0.90	**********	**********	**********	**********	**********	**********
70/ 8/ 2 813	**********	**********	0.60	0.80	**********	**********	**********	**********	**********	**********
70/ 8/ 3 810	0.20	3.80	**********	**********	0.01	0.15	0.60+	0.08	0.04	4.10
ARITHMETIC MEAN	0.60	5.50	0.45	0.85	0.00	0.15	0.60	0.07	0.03	4.25
STD. DEVIATION	0.5656	2.4041	0.0707	0.0707	0.0070	0.0282	0.0000	0.0070	0.0070	0.2121
NO. OF VALUES	2	2	2	2	2	2	2	2	2	2

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 11/16/70

STATION 971024:
YELLOWSTONE L WHERE RIVER ENTERS
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	930: SODIUM NA:DISS MG/L	935: PTSSIUM K:DISS MG/L	950: FLUORIDE F:DISS MG/L	1020: BORON B:DISS UG/L	1040: COPPER CU UG/L	1045: IRON TOTAL UG/L	1055: MANGNESE MN UG/L	1090: ZINC ZN:DISS UG/L	1145: SELENIUM SE:DISS UG/L	9503: RA-226 DISOLVED PC/L
70/ 7/20 820	4.50	1.30	0.20	**********	0.00+	240.00	30.00	0.00+**********		**********
70/ 8/ 3 810	2.50	1.30	0.10	**********	0.00+	120.00	0.00+	0.00+**********		**********
ARITHMETIC MEAN	3.50	1.30	0.15	0.00	0.00	200.00	15.00	0.00	0.00	0.00
STD. DEVIATION	1.4142	0.0000	0.0707	0.0000	0.0000	113.1370	21.2131	0.0000	0.0000	0.0000
NO. OF VALUES	2	2	2	0	2	2	2	2	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA, 11/16/70

STATION 571024.
YELLOWSTONE L WHERE RIVER ENTERS
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	925. MGNSIUM MG.DISS MG/L	1005. BARIUM BA.DISS UG/L	1049. LEAD PB.DISS UG/L	720. CYANIDE CN MG/L	1000. ARSENIC AS.DISS UG/L	32730. PHENOLS UG/L	500. RESIDUE TOTAL MG/L	515. RESIDUE TOT FLT MG/L	22703. U-NAT DISOLVED UG/L
70/ 7/20 820	1.80	0.00+	0.00+**********	**********	**********	103.00	102.00	**********	
70/ 8/ 3 810	1.90	0.00+	0.00+**********	**********	**********	76.00	57.00	**********	
ARITHMETIC MEAN	1.85	0.00	0.00	0.00	0.00	0.00	89.50	79.50	0.00
STD. DEVIATION	0.0707	0.0000	0.0000	0.0000	0.0000	0.0000	19.0919	31.8197	0.0000
NO. OF VALUES	2	2	2	0	0	0	2	2	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM-BACT. 11/16/70

STATION 571024.
YELLOWSTONE L WHERE RIVER ENTERS
MISSOURI RIVER
YELLOWSTONE RIVER

DATE	TIME	955. SILICA SIO2 MG/L	680. T ORG C C MG/L	38260. MBAS MG/L	31501. COLIFORM IMEDENDO MF/100ML	31616. FEC COLI MF-C44.5 MF/100ML	31673. STPCOCCI KF AGR MF/100ML
70/ 7/20	820	15.00	9.00	**********	**********	**********	**********
70/ 7/31	829	**********	**********	**********	**********	8.00	12.00
70/ 8/ 1	825	**********	**********	**********	**********	8.00	56.00
70/ 8/ 2	819	**********	**********	**********	**********	20.00	2.00
70/ 8/ 3	810	21.00	6.00	**********	**********	19.00	5.00
ARITHMETIC MEAN		18.00	7.50	0.00	0.00	13.75	18.75
STD. DEVIATION		4.2426	2.1213	0.0000	0.0000	6.6520	25.1842
NO. OF VALUES		2	2	0	0	4	4

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 571025.
YELLOWSTONE L. NEAR GRANT V. STP
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	10. WATER TEMP CENT	20. AIR TEMP CENT	3. VSAMPLOC DEPTH FEET	60. STREAM FLOW CUFT/SEC	300. DO MG/L	400. PH S U	403. LAB PH SU	95. CNDUCTVY AT 25C MICROMHO	70. TURB JKSN JU	410. T ALK CACO3 MG/L
70/ 5/ 8 840	0.00	0.00	**********	**********	8.10	7.90	8.20	62.00	0.80	41.00
70/ 5/13 815	0.00	0.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 5/14 805	0.00	5.00	**********	**********	**********	**********	6.70	**********	**********	**********
70/ 5/15 800	0.00	3.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 5/16 750	0.00	3.00	**********	**********	**********	**********	7.00	**********	**********	**********
70/ 5/17 830	0.00	5.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 5/25 1430	0.50	14.00	**********	**********	6.60	7.20	6.00	20.00	1.10	8.20
70/ 5/26 1119	1.00	13.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 7/20 1035	**********	**********	**********	**********	9.30	7.00	7.30	98.00	0.30	50.00
70/ 7/23 1245	9.00	17.00	1.30	**********	**********	7.10	**********	**********	**********	**********
70/ 7/23 1246	7.80	17.00	10.00	**********	**********	**********	**********	**********	**********	**********
70/ 7/23 1247	7.80	17.00	12.00	**********	**********	**********	**********	**********	**********	**********
70/ 7/30 1	**********	**********	10.00	**********	**********	**********	**********	**********	**********	**********
70/ 7/30 959	11.50	16.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 7/31 1105	12.50	18.00	**********	**********	**********	**********	7.50	**********	0.40	31.00
70/ 7/31 1110	**********	**********	10.00	**********	**********	**********	**********	**********	**********	**********
70/ 8/ 1 1040	12.00	13.50	**********	**********	**********	**********	**********	**********	**********	**********
70/ 8/ 2 1019	13.00	14.00	**********	**********	**********	**********	7.35	**********	0.40	30.00
70/ 8/ 3 1020	12.00	15.00	**********	**********	**********	**********	7.10	95.00	0.40	30.00
70/ 8/10 1005	14.00	15.00	**********	**********	**********	**********	**********	**********	**********	**********
ARITHMETIC MEAN	9.94	10.97	8.65	0.00	8.00	7.20	7.13	68.75	0.56	28.36
STD. DEVIATION	5.8319	6.5728	4.3356	0.0000	1.3527	0.2161	0.6346	36.3627	0.3141	10.7816
NO. OF VALUES	17	17	5	0	3	4	8	4	6	6

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 11/16/78

STATION 571025.
YELLOWSTONE L. NEAR GRANT V. STP
MISSOURI RIVER
YELLOWSTONE RIVER

DATE	TIME	940. CHLORIDE CL MG/L	945. SULFATE SO4 MG/L	304. BOD 2 DAY MG/L	310. BOD 5 DAY MG/L	610. AMMONIA NH3-N MG/L	625. TOT KJEL N MG/L	630. NO2&NO3 N MG/L	665. PHOS-T P-WET MG/L	70507. PHOS-T ORTHO MG/L-P	915. CALCIUM CA-DISS MG/L
78/ 5/ 8	840	9.00	8.00	**********	**********	0.00+	0.25	0.01	0.07	0.05	3.90
78/ 5/14	805	**********	**********	1.70	**********	**********	**********	**********	**********	**********	**********
78/ 5/16	750	**********	**********	1.60	2.00	**********	**********	**********	**********	**********	**********
78/ 5/25	1430	1.00	3.50	**********	**********	0.05	0.10	0.09	0.01	0.00	0.80
78/ 7/20	1035	9.00	9.20	**********	**********	0.02	0.14	0.00+	0.02	0.02	4.60
78/ 7/31	1105	**********	**********	0.30	0.60	**********	**********	**********	**********	**********	**********
78/ 8/ 2	1015	**********	**********	0.40	0.80	**********	**********	**********	**********	**********	**********
78/ 8/ 5	1020	9.00	7.00	**********	**********	0.01	0.05	0.00+	0.05	0.02	5.10
ARITHMETIC MEAN		9.00	6.92	1.00	1.13	0.02	0.13	0.02	0.03	0.02	3.60
STD. DEVIATION		3.2659	2.4540	0.7527	0.7571	0.0216	0.0850	0.0433	0.0275	0.0192	1.9304
NO. OF VALUES		4	4	4	3	4	4	4	4	4	4

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA, 11/16/70

STATION 471025,
YELLOWSTONE L. NEAR GRANT V. STP
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	930, SODIUM NA,DISS MG/L	935, POTASSIUM K,DISS MG/L	950, FLUORIDE F,DISS MG/L	1020, BORON B,DISS UG/L	1040, COPPER CU UG/L	1045, IRON TOTAL UG/L	1395, MANGANESE MN UG/L	1090, ZINC ZN,DISS UG/L	1149, SELENIUM SE,DISS UG/L	9503, RA-226 DISSOLVED PC/L
70/ 5/ 8 840	6.10	1.10	0.40	**********	0.00+	100.00	50.00	0.00+**********	**********	
70/ 5/25 1430	1.70	0.50	0.10	**********	0.00+	0.00+	50.00	0.00+**********	**********	
70/ 7/20 1035	10.00	1.80	0.70	**********	0.00+	0.00+	0.00+	0.00+**********	**********	
70/ 8/ 3 1020	11.00	2.00	0.80	**********	0.00+	0.00+	40.00	0.00+**********	**********	
ARITHMETIC MEAN	7.20	1.35	0.45	0.00	0.00	25.00	35.00	0.00	0.00	0.00
STD. DEVIATION	4.2324	0.6855	0.2645	0.0000	0.0000	49.9999	23.8047	0.0000	0.0000	0.0000
NO. OF VALUES	4	4	4	0	4	4	4	4	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 971029.
YELLOWSTONE L. NEAR GRANT VA. STP
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	929. MAGNESIUM MG.DISS MG/L	1009. BARIUM BA.DISS UG/L	1049. LEAD PB.DISS UG/L	720. CYANIDE CN MG/L	1000. ARSENIC AS.DISS UG/L	32730. PHENOLS UG/L	500. RESIDUE TOTAL MG/L	515. RESIDUE TOT FLT MG/L	22703. URANAT DISOLVED UG/L
70/ 5/ 6 840	1.60	0.00+	0.00+	**********	**********	**********	94.00	98.00	**********
70/ 5/25 1430	4.30	0.00+	0.00+	**********	**********	**********	23.00	21.00	**********
70/ 7/20 1035	2.40	0.00+	0.00+	**********	**********	**********	107.00	62.00	**********
70/ 8/ 3 1020	2.40	0.00+	0.00+	**********	**********	**********	87.00	87.00	**********
ARITHMETIC MEAN	2.67	0.00	0.00	0.0000	0.0000	0.0000	67.75	67.00	0.00
STD. DEVIATION	1.1470	0.0000	0.0000	0.0000	0.0000	0.0000	36.9838	34.1662	0.0000
NO. OF VALUES	4	4	4	0	0	0	4	4	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM-BACT. 11/16/70

STATION 971029.
YELLOWSTONE R. NEAR GRANT V. STP
MISSOURI RIVER
YELLOWSTONE RIVER

DATE	TIME	955. SILICA SIO2 MG/L	400. T DEG C C MG/L	38260. MBAS MG/L	31501. COLIFORM IMEDEMOD MP/100ML	31616. FEC COLI MF-C44.5 MP/100ML	31673. STPCOCCI KF AGR MP/100ML
70/ 5/13	815	**********	**********	*********.0	1.00-	1.00-**********	
70/ 5/14	825	**********	**********	**********	1.00-	1.00-**********	
70/ 5/15	800	**********	**********	**********	1.00-	1.00-**********	
70/ 5/16	750	**********	**********	**********	1.00-	1.00-**********	
70/ 5/17	830	**********	**********	**********	1.00-	1.00-**********	
70/ 5/25	1430	**********	3.00	**********	**********	**********	**********
70/ 5/26	1055	**********	**********	**********	33.00	40.00	**********
70/ 7/20	1039	9.00	8.00	**********	**********	**********	**********
70/ 7/30	1	**********	**********	**********	**********	1.00-	1.00-
70/ 7/30	935	**********	**********	**********	**********	1.00-	1.00-
70/ 7/31	1108	**********	**********	**********	**********	1.00-	1.00-
70/ 7/31	1110	**********	**********	**********	**********	1.00-	20.00
70/ 8/ 1	0	**********	**********	**********	**********	1.00-	2.00
70/ 8/ 2	1015	**********	**********	**********	**********	1.00-	1.00-
70/ 8/ 9	1020	10.00	8.00	**********	**********	1.00-	1.00-
70/ 8/10	1009	**********	**********	**********	**********	1.00-	5.00
ARITHMETIC MEAN		9.50	6.33	0.00	9.66	3.76	4.00
STD. DEVIATION		0.7071	2.8867	0.0000	21.2284	10.6231	0.0116
NO. OF VALUES		2	3	0	6	14	6

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 5716026.
YELLOWSTONE L. NEAR WEST THUMB
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	10. WATER TEMP CENT	20. AIR TEMP CENT	3. VSAMPLOC DEPTH FEET	60. STREAM FLOW CUFT/SEC	300. DO MG/L	400. PH S U	403. LAB PH SU	95. CNDUCTVY AT 25C MICROMHO	70. TURB JKSN JU	410. T ALK CACO3 MG/L
70/ 5/ 8 810	6.00	0.00	**********	**********	8.70	7.20	8.30	161.00	0.50	79.00
70/ 5/25 1450	6.00	16.00	**********	**********	9.80	6.70	6.60	89.00	2.00	27.00
70/ 5/26 1055	5.50	13.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 7/20 1110	**********	**********	**********	**********	8.00	6.60	7.30	100.00	0.30	31.00
70/ 7/23 1215	8.00	17.00	1.00	**********	**********	**********	**********	**********	**********	**********
70/ 7/23 1316	6.10	17.00	10.00	**********	**********	**********	**********	**********	**********	**********
70/ 7/30 1015	12.00	15.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 7/31 1119	12.00	15.00	**********	**********	**********	**********	7.20	**********	0.50	35.00
70/ 8/ 1 1055	12.00	16.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 8/ 1 1100	**********	**********	10.00	**********	**********	**********	**********	**********	**********	**********
70/ 8/ 2 1040	12.50	15.00	**********	**********	**********	**********	7.50	**********	0.50	30.00
70/ 8/ 2 1041	**********	**********	10.00	**********	**********	**********	**********	**********	**********	**********
70/ 8/ 3 1040	13.00	16.00	**********	**********	**********	**********	7.40	94.00	0.30	30.00
70/ 8/10 1045	15.00	15.00	**********	**********	**********	**********	**********	**********	**********	**********
ARITHMETIC MEAN	9.82	14.09	7.75	0.00	8.83	6.83	7.38	110.00	0.68	38.66
STD. DEVIATION	3.5129	4.8053	4.5000	0.0000	0.9074	0.3214	0.5492	34.5543	0.6524	19.9265
NO. OF VALUES	11	11	4	0	3	3	6	4	6	6

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 11/16/70

STATION 5710260
YELLOWSTONE L. NEAR WEST THUMB
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	940 CHLORIDE CL MG/L	945 SULFATE SO4 MG/L	310 BOD 2 DAY MG/L	310 BOD 5 DAY MG/L	610 AMMONIA NH3-N MG/L	625 TOT KJEL N MG/L	630 NO2&NO3 N MG/L	665 PHOS-T P-WET MG/L	70507 PHOS-T ORTHO MG/L-P	915 CALCIUM CA-DISS MG/L
70/ 5/ 6 810	16.00	12.00	**********	**********	0.01	0.06	0.01	0.07	0.02	5.10
70/ 5/25 1450	5.00	10.00	**********	**********	0.03	0.16	0.03	0.01	0.00	2.60
70/ 7/20 1110	4.00	9.20	**********	**********	0.01	0.15	0.00+	0.03	0.02	4.60
70/ 7/31 1115	**********	**********	0.20	0.60	**********	**********	**********	**********	**********	**********
70/ 8/ 2 1040	**********	**********	0.60	0.80	**********	**********	**********	**********	**********	**********
70/ 8/ 3 1040	5.00	5.00	**********	**********	0.10	0.10	0.00+	0.09	0.01	5.00
ARITHMETIC MEAN	8.00	9.05	0.40	0.70	0.03	0.11	0.01	0.05	0.01	4.32
STD. DEVIATION	5.3541	2.9456	0.2828	0.1414	0.0427	0.0464	0.0141	0.0369	0.0091	1.1701
NO. OF VALUES	4	4	2	2	4	4	4	4	4	4

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 11/16/70

STATION 97102:
YELLOWSTONE L. NEAR WEST THUMB
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	930: SODIUM NA:DISS MG/L	935: PTSSIUM K:DISS MG/L	950: FLUORIDE F:DISS MG/L	1020: BORON B:DISS UG/L	1040: COPPER CU UG/L	1045: IRON TOTAL UG/L	1055: MANGNESE MN UG/L	1090: ZINC ZN:DISS UG/L	1145: SELENIUM SE:DISS UG/L	9503: RA-226 DISOLVED PC/L
70/ 5/ 6 610	2.40	2.30	1.40	**********	0.00+	0.00+	0.00+	0.19	**********	**********
70/ 5/25 1450	9.90	1.70	0.40	**********	0.00+	0.00+	200.00	0.00+**********		**********
70/ 7/20 1110	11.00	1.90	0.70	**********	0.00+	0.00+	20.00	0.00+**********		**********
70/ 8/ 3 1040	9.60	2.00	0.60	**********	0.00+	0.00+	0.00+	0.00+**********		**********
ARITHMETIC MEAN	8.22	1.97	0.87	0.00	0.00	0.00	55.00	0.03	0.00	0.00
STD. DEVIATION	3.9296	0.2500	0.4856	0.0000	0.0000	0.0000	97.1252	0.0750	0.0000	0.0000
NO. OF VALUES	4	4	4	0	4	4	4	4	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA, 11/16/70

STATION 471026.
YELLOWSTONE L. NEAR WEST THUMB
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	925. MGNSIUM MG,DISS MG/L	1005. BARIUM BA,DISS UG/L	1049. LEAD PB,DISS UG/L	720. CYANIDE CN MG/L	1000. ARSENIC AS,DISS UG/L	32730. PHENOLS UG/L	500. RESIDUE TOTAL MG/L	515. RESIDUE TOT FLT MG/L	22703. U-NAT DISOLVED UG/L
70/ 5/ 8 810	2.30	0.00+	0.00	**********	**********	**********	103.00	101.00	**********
70/ 5/25 1450	1.80	0.00+	0.00	**********	**********	**********	101.00	65.00	**********
70/ 7/20 1110	2.60	0.00+	0.00	**********	**********	**********	83.00	35.00	**********
70/ 8/ 3 1040	2.40	0.00+	0.00	**********	**********	**********	97.00	76.00	**********
ARITHMETIC MEAN	2.27	0.00	0.00	0.00	0.00	0.00	96.00	69.75	0.00
STD. DEVIATION	0.3403	0.0000	0.0000	0.0000	0.0000	0.0000	9.0189	27.5363	0.0000
NO. OF VALUES	4	4	4	0	0	0	4	4	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM-BACT. 11/16/70

STATION 571026.
YELLOWSTONE L. NEAR WEST THUMB
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	955. SILICA $102 MG/L	680. T ORG C C MG/L	38260. MBAS MG/L	31501. COLIFORM IMEDENDO MF/100ML	31616. FEC COLI MF-C44.5 MF/100ML	31673. STPCOCCI KF AGR MF/100ML
70/ 5/ 8 810	**********	15.00	**********	**********	**********	**********
70/ 5/25 1450	**********	9.00	**********	**********	**********	**********
70/ 5/26 1115	**********	**********	**********	1.00-	1.00-	**********
70/ 7/29 1110	9.00	9.00	**********	**********	**********	**********
70/ 7/30 1015	**********	**********	**********	**********	1.00	1.00-
70/ 7/31 1115	**********	**********	**********	**********	1.00	26.00
70/ 8/ 1 1055	**********	**********	**********	**********	1.00-	3.00
70/ 8/ 1 1100	**********	**********	**********	**********	33.00	150.00
70/ 8/ 2 1040	**********	**********	**********	**********	1.00-	1.00-
70/ 8/ 2 1041	**********	**********	**********	**********	1.00-	1.00-
70/ 8/ 3 1040	2.00	8.00	**********	**********	1.00-	2.00
70/ 8/12 1045	**********	**********	**********	**********	1.00-	210.00
ARITHMETIC MEAN	5.50	10.25	0.00	1.00	4.55	49.25
STD. DEVIATION	4.9497	3.2015	0.0000	0.0000	10.6666	82.7106
NO. OF VALUES	2	4	0	1	9	8

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 11/16/70

STATION ST1027.
DUCK LAKE NR W. THUMB CAMP GR.
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	10. WATER TEMP CENT	20. AIR TEMP CENT	3. VSAMPLOC DEPTH FEET	60. STREAM FLOW CUFT/SEC	300. DO MG/L	400. PH S U	403. LAB PH SU	95. CNDUCTVY AT 25C MICROMHO	70. TURB JKSN JU	410. T ALK CACO3 MG/L
70/ 5/11 830	0.00	0.00	**********	**********	**********	**********				
70/ 5/18 755	0.00	12.00	**********	**********	**********	**********	7.30	19.00	2.20	18.00
70/ 5/19 750	0.00	6.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 5/20 745	0.00	8.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 5/21 900	0.00	7.00	**********	**********	**********	**********	6.10	**********	**********	**********
70/ 5/22 925	0.00	6.00	**********	**********	**********	6.70	6.30	**********	**********	**********
70/ 5/25 1210	1.50	16.00	**********	**********	**********	**********	6.30	**********	**********	**********
70/ 7/21 900	18.00	12.50	**********	**********	8.40	6.80	9.90	17.00	3.00	4.40
70/ 7/25 745	17.00	10.00	**********	**********	7.20	7.50	6.40	21.00	0.30	7.00
70/ 7/26 1100	17.50	23.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 7/27 930	18.00	17.00	**********	**********	**********	**********	6.70	**********	0.40	9.00
70/ 7/28 1230	17.00	18.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 7/29 950	20.00	18.00	**********	**********	**********	**********	6.80	**********	0.50	8.00
70/ 8/ 3 805	17.00	15.00	**********	**********	**********	**********	**********	**********	**********	**********
					7.00	8.20	6.60	23.00	0.30	7.00
ARITHMETIC MEAN	9.00	12.03	0.00	0.00	7.53	7.30	6.48	20.00	1.11	8.90
STD. DEVIATION	9.1546	6.2279	0.0000	0.0000	0.7572	0.6976	0.4167	2.5820	1.1788	4.7138
NO. OF VALUES	14	14	0	0	3	4	9	4	4	4

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA, 11/16/70

STATION 471027,
DUCK LAKE NR Mo. THUMB CAMP GR.
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	940, CHLORIDE CL MG/L	945, SULFATE SO4 MG/L	304, BOD 5 DAY 20 DEG C MG/L	310, BOD 5 DAY MG/L	610, AMMONIA NH3-N MG/L	625, TOT KJEL N MG/L	630, NO2&NO3 N MG/L	663, PHOS-T P-WET MG/L	70507, PHOS-T ORTHO MG/L-P	915, CALCIUM CA,DISS MG/L
70/ 5/11 830	4.00	10.00	**********	**********	0.00+	0.01	0.00+	0.04	0.02	2.10
70/ 5/20 745	**********	**********	1.60	2.20	**********	**********	**********	**********	**********	**********
70/ 5/21 900	**********	**********	0.70	1.30	**********	**********	**********	**********	**********	**********
70/ 5/23 925	**********	**********	1.10	1.10	**********	**********	**********	**********	**********	**********
70/ 5/29 1210	0.80	5.10	**********	**********	0.03	0.25	0.03	0.01	0.00	0.80
70/ 7/11 900	0.60	3.60	**********	**********	0.00+	0.23	0.00+	0.01	0.00+	1.60
70/ 7/26 1100	**********	**********	0.40	0.70	**********	**********	**********	**********	**********	**********
70/ 7/28 1230	**********	**********	0.40	1.00	**********	**********	**********	**********	**********	**********
70/ 8/ 3 808	0.90	3.60	**********	**********	0.02	0.28	0.00+	0.10	0.02	1.30
ARITHMETIC MEAN	1.57	5.67	0.84	1.26	0.01	0.19	0.00	0.04	0.01	1.50
STD. DEVIATION	1.6214	3.0192	0.3128	0.5663	0.0150	0.1233	0.0150	0.0424	0.0114	0.8234
NO. OF VALUES	4	4	3	3	4	4	4	4	4	4

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 471027.
DUCK LAKE NR W. THUMB CAMP GR.
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	930. SODIUM NA.DISS MG/L	935. PYSSIUM K.DISS MG/L	950. FLUORIDE F.DISS MG/L	1020. BORON B.DISS UG/L	1040. COPPER CU UG/L	1045. IRON TOTAL UG/L	1055. MANGRESE MN UG/L	1090. ZINC ZN.DISS UG/L	1145. SELENIUM SE.DISS UG/L	9503. RA-226 DISOLVED PC/L
70/ 5/11 830	1.10	1.00	0.10 **********		0.00+	0.00+	0.00+	0.00+**********		**********
70/ 5/29 1210	0.90	0.80	0.00+**********		0.00+	250.00	30.00	0.00+**********		**********
70/ 7/21 900	1.00	1.00	0.00+**********		0.00+	0.00+	0.00+	0.00+**********		**********
70/ 8/ 3 805	1.00	1.20	0.10 **********		0.00+	0.00+	0.00+	0.00+**********		**********
ARITHMETIC MEAN	1.00	1.00	0.05	0.00	0.00	62.50	7.50	0.00	0.00	0.00
STD. DEVIATION	0.0816	0.1633	0.0577	0.0000	0.0000	124.9998	14.9999	0.0000	0.0000	0.0000
NO. OF VALUES	4	4	4	0	4	4	4	4	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 571027.
DUCK LAKE NR w, THUMB CAMP GR.
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	925. MGNSIUM MG.DISS MG/L	1005. BARIUM BA.DISS UG/L	1049. LEAD PB.DISS UG/L	720. CYANIDE CN MG/L	1000. ARSENIC AS.DISS UG/L	32730. PHENOLS UG/L	500. RESIDUE TOTAL MG/L	515. RESIDUE TOT FLT MG/L	22703. U-NAT DISOLVED UG/L
70/ 5/11 830	0.60	0.00+	0.00+**********	**********	**********	**********	65.00	32.00	**********
70/ 5/25 1210	0.40	0.00+	0.00+**********	**********	**********	**********	74.00	32.00	**********
70/ 7/21 900	0.60	0.00+	0.00+**********	**********	**********	**********	59.00	1.00	**********
70/ 8/ 3 805	0.40	0.00+	0.00+**********	**********	**********	**********	66.00	34.00	**********
ARITHMETIC MEAN	0.50	0.00	0.00	0.00	0.00	0.00	66.00	29.75	0.00
STD. DEVIATION	0.1154	0.0000	0.0000	0.0000	0.0000	0.0000	6.1645	21.1719	0.0000
NO. OF VALUES	4	4	4	0	0	0	4	4	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM-BACT. 11/16/70

STATION 971027.
DUCK LAKE NR W. THUMB CAMP GR.
MISSOURI RIVER
YELLOWSTONE RIVER

DATE	TIME	955. SILICA SI02 MG/L	680. T ORG C C MG/L	38260. MBAS MG/L	31501. COLIFORM IMEDENDO MF/100ML	31616. FEC COLI MF-C44.5 MF/100ML	31673. STPCOCCI KF AGR MF/100ML
70/ 5/11	830	**********	4.00	**********	**********	**********	**********
70/ 5/18	755	**********	**********	**********	1.00-	1.00-	**********
70/ 5/19	750	**********	**********	**********	1.00-	1.00-	**********
70/ 5/20	745	**********	**********	**********	1.00-	1.00-	**********
70/ 5/21	900	**********	**********	**********	9.00	1.00-	**********
70/ 5/22	925	**********	**********	**********	1.00-	1.00-	**********
70/ 5/25	1210	**********	4.00	**********	**********	**********	**********
70/ 7/21	900	1.00	5.00	**********	**********	**********	**********
70/ 7/25	745	**********	**********	**********	**********	1.00-	1.00-
70/ 7/26	1100	**********	**********	**********	**********	1.00-	1.00-
70/ 7/27	930	**********	**********	**********	**********	1.00-	24.00
70/ 7/28	1230	**********	**********	**********	**********	1.00-	4.00
70/ 7/29	950	**********	**********	**********	**********	1.00-	1.00-
70/ 8/ 3	805	2.00	5.00	**********	**********	**********	**********
ARITHMETIC MEAN		1.50	4.50	0.00	2.60	1.00	6.20
STD. DEVIATION		0.7071	0.5773	0.0000	3.9777	0.0010	10.0349
NO. OF VALUES		2	4	0	9	10	5

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

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PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 5710360.
MADISON R BELOW MADISON JUNC. CG
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	10. WATER TEMP CENT	20. AIR TEMP CENT	3. VSAMPLOC DEPTH FEET	60. STREAM FLOW CUFT/SEC	300. DO MG/L	400. PH S U	403. LAB PH SU	95. CNDUCTVY AT 25C MICROMHO	70. TURB JKSN JU	410. T ALK CACO3 MG/L
70/ 5/ 8 1419	12.00	6.00	**********	**********	8.10	7.20	8.70	353.00	1.40	124.00
70/ 5/18 940	9.00	13.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 5/19 950	11.00	10.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 5/20 950	11.00	11.00	**********	**********	**********	**********	7.00	**********	**********	**********
70/ 5/21 930	10.00	4.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 5/22 940	**********	6.00	**********	**********	**********	**********	7.20	**********	**********	**********
70/ 5/23 1435	11.50	9.00	**********	**********	7.90	7.20	7.10	236.00	3.90	58.00
70/ 5/27 1005	9.00	12.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 7/21 1125	20.00	20.00	**********	**********	9.30	6.90	7.40	408.00	0.80	100.00
70/ 7/30 1545	20.00	22.00	**********	**********	7.20	7.10	7.10	428.00	1.00	108.00
70/ 8/12 1000	19.00	24.00	**********	**********	**********	**********	7.50	**********	**********	**********
70/ 8/15 1120	17.00	21.00	**********	**********	**********	**********	7.40	**********	**********	**********
70/ 8/16 920	17.00	14.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 8/17 840	18.00	12.00	**********	**********	**********	**********	7.40	**********	**********	107.00
70/ 8/18 805	16.00	7.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 8/19 805	16.00	5.00	**********	**********	**********	**********	**********	**********	**********	**********
ARITHMETIC MEAN	14.43	12.25	0.00	0.00	8.12	7.10	7.42	356.24	1.82	99.48
STD. DEVIATION	4.0570	6.4135	0.0000	0.0000	0.8732	0.1415	0.5094	86.2108	1.4244	24.7549
NO. OF VALUES	15	16	0	0	4	4	9	4	4	5

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 11/16/70

STATION 271036.
MADISON R BELOW MADISON JUNC. CG
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	940. CHLORIDE CL MG/L	945. SULFATE SO4 MG/L	304. BOD 2 DAY MG/L	310. BOD 5 DAY MG/L	610. AMMONIA NH3-N MG/L	625. TOT KJEL N MG/L	630. NO2&NO3 N MG/L	665. PHOS-T P-WET MG/L	70507. PHOS-T ORTHO MG/L-P	915. CALCIUM CA,DISS MG/L
70/ 5/ 8 1415	52.00	26.00	**********	**********	0.02	0.17	0.01	0.13	0.12	5.40
70/ 5/20 950	**********	**********	1.10	2.00	**********	**********	**********	**********	**********	**********
70/ 5/22 940	**********	**********	1.00	1.30	**********	**********	**********	**********	**********	**********
70/ 5/23 1435	29.00	17.00	**********	**********	0.02	0.25	0.03	0.02	0.00	5.70
70/ 7/21 1125	49.00	12.00	**********	**********	0.00+	0.17	0.01	0.22	0.12	5.80
70/ 7/30 1545	50.00	14.00	**********	**********	0.00+	0.02	0.02	0.11	0.11	6.30
70/ 8/12 1000	**********	**********	0.60	1.00	**********	**********	**********	**********	**********	**********
ARITHMETIC MEAN	45.00	17.25	0.90	1.43	0.01	0.15	0.01	0.12	0.09	5.80
STD. DEVIATION	10.7393	6.1846	0.2645	0.5131	0.0115	0.0960	0.0095	0.0820	0.0576	0.3741
NO. OF VALUES	4	4	3	3	4	4	4	4	4	4

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 5710304.
MADISON R BELOW MADISON JUNC. CO
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	930. SODIUM NA.DISS MG/L	935. POTASSIUM K.DISS MG/L	950. FLUORIDE F.DISS MG/L	1020. BORON B.DISS UG/L	1040. COPPER CU UG/L	1045. IRON TOTAL UG/L	1055. MANGANESE MN UG/L	1090. ZINC ZN.DISS UG/L	1145. SELENIUM SE.DISS UG/L	9903. RA-226 DISSOLVED PC/L
70/ 5/ 8 1415	68.00	8.10	6.10 **********		0.00+	350.00	40.00	0.00+**********		**********
70/ 5/25 1435	44.00	5.90	3.30 **********		0.00+	700.00	50.00	0.00+**********		**********
70/ 7/21 1125	69.00	9.00	6.80 **********		0.00+	200.00	9.00+	0.00+**********		**********
70/ 7/30 1945	77.00	9.60	8.80 **********		0.00+	190.00	0.00+	0.00+**********		**********
ARITHMETIC MEAN	64.50	8.15	5.75	0.00	0.00	360.00	22.50	0.00	0.00	0.00
STD. DEVIATION	14.2678	1.6217	1.6663	0.0000	0.0000	238.1673	26.2995	0.0000	0.0000	0.0000
NO. OF VALUES	4	4	4	0	4	4	4	4	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 11/10/70

STATION 9710300.
MADISON R BELOW MADISON JUNC, CO
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	929. MANGANESE MN,DISS UG/L	1009. BARIUM BA,DISS UG/L	1049. LEAD PB,DISS UG/L	720. CYANIDE CN MG/L	1000. ARSENIC AS,DISS UG/L	32730. PHENOLS UG/L	980. RESIDUE TOTAL MG/L	919. RESIDUE TOT FLT MG/L	22703. URANI DISSOLVED UG/L
70/ 5/ 6 1415	0.70	0.00+	0.00+**********	**********	**********	310.00	294.00	**********
70/ 5/29 1030	0.60	0.00+	0.00+**********	**********	**********	237.00	167.00	**********
70/ 7/21 1125	0.90	0.00+	0.00+**********	**********	**********	323.00	234.00	**********
70/ 7/30 1540	0.80	0.00+	0.00+**********	**********	** ******	372.00	329.00	**********
ARITHMETIC MEAN	0.75	0.00	0.00	0.00	0.00	0.00	310.49	281.00	0.00
STD. DEVIATION	0.1291	0.0000	0.0000	0.0000	0.0000	0.0000	99.6211	69.7570	0.0000
NO. OF VALUES	4	4	4	0	0	0	4	4	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM-BACT. 11/16/70

STATION 9710360
MADISON R BELOW MADISON JUNC. CO
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	955. SILICA SIO2 MG/L	680. T ORG C C MG/L	38260. MBAS MG/L	31501. COLIFORM IMEDENDO MF/100ML	31616. FEC COLI MF-C44.5 MF/100ML	31673. STPCOCCI KF AGR MF/100ML
70/ 5/ 8 1415	**********	26.00	**********	**********	**********	**********
70/ 5/18 940	**********	**********	**********	100.00	90.00	**********
70/ 5/19 950	**********	**********	**********	120.00	100.00	**********
70/ 5/20 950	**********	**********	**********	100.00	67.00	**********
70/ 5/21 930	**********	**********	**********	300.00	140.00	**********
70/ 5/22 940	**********	**********	**********	76.00	53.00	**********
70/ 5/23 1435	**********	17.00	**********	**********	**********	**********
70/ 5/27 1005	**********	**********	**********	390.00	350.00	**********
70/ 7/21 1125	87.00	26.00	**********	**********	**********	**********
70/ 7/30 1945	97.00	26.00	**********	**********	**********	**********
70/ 8/12 1000	**********	**********	**********	**********	21.00	40.00
70/ 8/15 1120	**********	**********	**********	**********	14.00	18.00
70/ 8/16 920	**********	**********	**********	**********	35.00	64.00
70/ 8/17 840	**********	**********	**********	**********	72.00	72.00
70/ 8/18 805	**********	**********	**********	**********	12.00	79.00
70/ 8/19 805	**********	**********	**********	**********	198.00	76.00
ARITHMETIC MEAN	92.00	23.75	0.00	180.99	96.00	58.16
STD. DEVIATION	7.0711	4.5000	0.0000	130.9273	96.9066	24.1695
NO. OF VALUES	2	4	0	6	12	6

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVCY RETRIEVAL - CHEM DATA: 11/16/70

STATION 971037:
GIBBON R. NEAR FIREHOLE R. JUNC.
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	10: WATER TEMP CENT	20: AIR TEMP CENT	3: VSAMPLOC DEPTH FEET	60: STREAM FLOW CUFT/SEC	300: DO MG/L	400: PH S U	403: LAB PH SU	95: CNDUCTVY AT 25C MICROMHO	70: TURB JKSN JU	410: T ALK CACO3 MG/L
70/ 5/ 6 1250	10.00	9.00	*********	*********	8.30	7.10	8.00	282.00	2.00	85.00
70/ 5/18 820	8.00	11.00	*********	*********	*********	*********	*********	*********	*********	*********
70/ 5/19 1000	8.00	10.00	*********	*********	*********	*********	*********	*********	*********	*********
70/ 5/20 956	8.30	13.00	*********	*********	*********	*********	8.80	*********	*********	*********
70/ 5/21 840	7.00	3.00	*********	*********	*********	*********	*********	*********	*********	*********
70/ 5/22 835	7.00	2.00	*********	*********	*********	*********	8.80	*********	*********	*********
70/ 5/23 1450	8.50	11.00	*********	*********	8.30	8.80	8.80	179.00	5.80	59.00
70/ 5/27 1000	8.50	12.00	*********	*********	*********	*********	*********	*********	*********	*********
70/ 5/29 815	7.00	9.00	*********	*********	*********	*********	*********	*********	*********	*********
70/ 7/21 1045	17.00	16.00	*********	178.00	7.60	8.70	7.10	288.00	0.90	79.00
70/ 8/ 3 940	14.00	17.00	*********	145.00	7.90	7.20	8.70	306.00	0.70	81.00
70/ 8/ 9 1055	15.00	18.50	*********	*********	*********	*********	7.20	*********	*********	*********
70/ 8/12 1015	15.00	25.00	*********	*********	*********	*********	7.20	*********	*********	*********
70/ 8/15 1130	15.00	23.00	*********	*********	*********	*********	7.10	*********	*********	*********
70/ 8/16 745	13.50	5.00	*********	*********	*********	*********	*********	*********	*********	*********
70/ 8/17 1100	16.50	24.00	*********	*********	*********	*********	7.10	*********	*********	91.00
70/ 8/18 755	13.50	6.00	*********	*********	*********	*********	*********	*********	*********	*********
70/ 8/19 755	13.50	4.00	*********	115.00	*********	*********	*********	*********	*********	*********
ARITHMETIC MEAN	11.38	11.91	0.00	146.00	8.02	6.95	7.86	263.75	2.35	79.00
STD. DEVIATION	3.6604	7.3249	0.0000	31.5121	0.3404	0.2381	0.3736	57.4131	2.3699	20.6398
NO. OF VALUES	16	16	2	3	4	4	10	4	4	5

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 471037.
GIBBON R. NEAR FIREHOLE R. JUNC.
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	940. CHLORIDE CL MG/L	945. SULFATE SO4 MG/L	300. BOD 2 DAY MG/L	310. BOD 5 DAY MG/L	610. AMMONIA NH3-N MG/L	625. TOT KJEL N MG/L	630. NO2&NO3 N MG/L	665. PHOS-T P-WET MG/L	70507. PHOS-T ORTHO MG/L-P	915. CALCIUM CA,DISS MG/L
70/ 5/ 8 1250	42.00	36.00	**********	**********	0.04	0.24	0.04	0.07	0.06	6.60
70/ 5/20 956	**********	**********	0.90	1.80	**********	**********	**********	**********	**********	**********
70/ 5/22 835	**********	**********	1.00	1.30	**********	**********	**********	**********	**********	**********
70/ 5/23 1450	19.00	25.00	**********	**********	0.03	0.28	0.03	0.02	0.00	6.30
70/ 7/21 1045	28.00	19.00	**********	**********	0.01	..08	0.04	0.05	0.05	7.00
70/ 8/ 3 940	31.00	15.00	**********	**********	0.00+	0.03	0.09	0.06	0.06	7.70
70/ 8/ 9 1055	**********	**********	0.60	1.10	**********	**********	**********	**********	**********	**********
70/ 8/12 1019	**********	**********	0.40	0.60	**********	**********	**********	**********	**********	**********
ARITHMETIC MEAN	30.00	21.50	0.72	1.20	0.02	0.15	0.04	0.05	0.04	6.90
STD. DEVIATION	9.4868	9.9498	0.2753	0.4966	0.0102	0.1212	0.0081	0.0216	0.0271	0.60555
NO. OF VALUES	4	4	4	4	4	4	4	4	4	4

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 571037.
GIBBON R. NEAR FIREHOLE R. JUNC.
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	930. SODIUM NA.DISS MG/L	935. PTSSIUM K.DISS MG/L	950. FLUORIDE F.DISS MG/L	1020. BORON B.DISS UG/L	1040. COPPER CU UG/L	1045. IRON TOTAL UG/L	1055. MANGNESE MN UG/L	1090. ZINC ZN.DISS UG/L	1165. SELENIUM SE.DISS UG/L	9503. RA-226 DISOLVED PC/L
70/ 5/ 8 1250	34.00	8.90	3.60	**********	0.00+	700.00	80.00	0.00+**********		0.01-
70/ 5/23 1450	28.00	5.40	1.60	**********	0.00+	850.00	90.00	0.00+**********	**********	
70/ 7/21 1045	45.00	8.50	2.70	**********	0.00+	340.00	0.00+	0.00+**********	**********	
70/ 8/ 3 940	49.00	9.30	3.90	**********	0.00+	360.00	50.00	0.00+**********	**********	
ARITHMETIC MEAN	44.00	8.02	3.20	0.00	0.00	562.49	55.00	0.00	0.00	0.01
STD. DEVIATION	11.2842	1.7802	1.0739	0.0000	0.0000	253.0317	40.4145	0.0000	0.0000	0.0000
NO. OF VALUES	4	4	4	0	4	4	4	4	0	1

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 571037.
GIBBON R. NEAR FIREHOLE R. JUNC.
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	925. MAGNESIUM MG.DISS MG/L	1005. BARIUM BA.DISS UG/L	1049. LEAD PB.DISS UG/L	720. CYANIDE CN MG/L	1000. ARSENIC AS.DISS UG/L	32730. PHENOLS UG/L	900. RESIDUE TOTAL MG/L	915. RESIDUE TOT FLT MG/L	22703. U-NAT DISOLVED UG/L
70/ 5/ 8 1250	1.10	0.00+	0.00+**********	**********	**********	**********	299.00	273.00	0.80
70/ 5/23 1450	0.80	0.00+	0.00+**********	**********	**********	**********	178.00	127.00	**********
70/ 7/21 1045	1.50	0.00+	0.00+**********	**********	**********	**********	249.00	166.00	**********
70/ 8/ 3 940	1.30	0.00+	0.00+**********	**********	**********	**********	249.00	235.00	**********
ARITHMETIC MEAN	1.17	0.00	0.00	0.00	0.00	.00	243.75	200.25	0.80
STD. DEVIATION	0.2986	0.0000	0.0000	0.0000	0.0000	0.0000	49.7689	65.9262	0.0000
NO. OF VALUES	4	4	4	0	0	0	4	4	1

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM-BACT. 11/16/70

STATION 571037.
GIBBON R. NEAR FIREHOLE R. JUNC.
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	955. SILICA SIO2 MG/L	680. T ORG C C MG/L	38260. MBAS MG/L	31501. COLIFORM IMEDENDO MF/100ML	31616. FEC COLI MF-C44.5 MF/100ML	31673. STPCOCCI KF AGR MF/100ML
70/ 5/ 8 1250	**********	21.00	**********	**********	**********	**********
70/ 5/18 820	**********	**********	**********	90.00	47.00	**********
70/ 5/19 1000	**********	**********	**********	60.00	46.00	**********
70/ 5/20 955	**********	**********	**********	130.00	100.00	**********
70/ 5/21 840	**********	**********	**********	440.00	220.00	**********
70/ 5/22 835	**********	**********	**********	140.00	140.00	**********
70/ 5/23 1450	**********	18.00	**********	**********	**********	**********
70/ 5/27 1900	**********	**********	**********	280.00	180.00	**********
70/ 5/29 815	**********	**********	**********	48.00	30.00	**********
70/ 7/21 1045	66.00	20.00	**********	**********	**********	**********
70/ 8/ 3 940	85.00	19.00	**********	**********	**********	**********
70/ 8/ 9 1055	**********	**********	**********	**********	2.00	10.00
70/ 8/12 1015	**********	**********	**********	**********	12.00	38.00
70/ 8/15 1130	**********	**********	**********	**********	1.00	29.00
70/ 8/16 745	**********	**********	**********	**********	7.00	188.00
70/ 8/17 1100	**********	**********	**********	**********	3.00	16.00
70/ 8/18 755	**********	**********	**********	**********	9.00	64.00
70/ 8/19 755	**********	**********	**********	**********	8.00	196.00
ARITHMETIC MEAN	75.50	19.50	0.00	169.71	57.50	77.28
STD. DEVIATION	13.4351	1.2910	0.0000	141.9408	73.2169	80.2967
NO. OF VALUES	2	4	0	7	14	7

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 11/16/70

STATION 5710380
GIBBON R. AT GIBBON R. RAPIDS
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	10: WATER TEMP CENT	20: AIR TEMP CENT	3: V&AMPLOC DEPTH FEET	60: STREAM FLOW CUFT/SEC	300: DO MG/L	400: PH S U	403: LAB PH SU	95: CNDUCTVY AT 25C MICROMHO	70: TURB JKSN JU	410: T ALK CACO3 MG/L
70/ 5/ 8 1230	8.00	6.00	**********	**********	8.40	7.10	8.50	314.00	2.00	66.00
70/ 5/18 810	6.00	11.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 5/19 1140	9.00	14.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 5/20 1150	8.00	16.00	**********	**********	**********	[illegible]	6.70	**********	**********	**********
70/ 5/21 820	6.00	2.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 5/22 820	5.00	1.00	**********	**********	**********	**********	7.00	**********	**********	**********
70/ 5/27 1045	9.50	14.00	**********	**********	8.30	6.40	6.50	133.00	4.20	21.00
70/ 5/29 830	6.00	9.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 7/21 1220	17.50	21.00	**********	**********	7.80	6.60	6.90	260.00	1.00	91.00
70/ 8/ 3 1010	14.00	19.00	**********	**********	7.90	6.80	6.50	284.00	1.20	93.00
70/ 8/ 9 1030	15.50	23.00	**********	**********	**********	**********	7.00	**********	**********	**********
70/ 8/15 1150	15.00	21.00	**********	**********	**********	**********	7.10	**********	**********	**********
70/ 8/16 935	13.00	14.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 8/17 825	15.50	11.00	**********	**********	**********	**********	6.80	**********	**********	59.00
70/ 8/18 950	12.00	16.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 8/19 1019	12.00	14.00	**********	**********	**********	**********	**********	**********	**********	**********
ARITHMETIC MEAN	10.75	13.25	0.00	0.00	8.10	6.72	7.00	247.74	2.10	58.00
STD. DEVIATION	4.0661	6.4446	0.0000	0.0000	0.2944	0.2986	0.6021	79.6257	1.4651	17.2337
NO. OF VALUES	16	16	0	0	4	4	9	4	4	5

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA, 11/16/70

STATION 471038.
GIBBON R. AT GIBBON R. RAPIDS
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	940. CHLORIDE CL MG/L	945. SULFATE SO4 MG/L	304. BOD 2 DAY MG/L	310. BOD 5 DAY MG/L	610. AMMONIA NH3-N MG/L	625. TOT KJEL N MG/L	630. NO2&NO3 N MG/L	665. PHOS-T P-WET MG/L	70507. PHOS-T ORTHO MG/L-P	915. CALCIUM CA,DISS MG/L
70/ 5/ 8 1230	48.00	40.00	**********	**********	0.06	0.30	0.04	0.09	0.08	6.30
70/ 5/20 1158	**********	**********	0.90	2.00	**********	**********	**********	**********	**********	**********
70/ 5/22 820	**********	**********	0.90	1.30	**********	**********	**********	**********	**********	**********
70/ 5/27 1045	39.00	19.00	**********	**********	0.03	1.20	0.02	0.02	0.00	4.90
70/ 7/21 1227	33.00	19.00	**********	**********	0.01	0.06	0.04	0.16	0.05	6.50
70/ 8/ 3 1010	34.00	20.00	**********	**********	0.03	0.03	0.04	0.06	0.06	7.30
70/ 8/ 9 1030	**********	**********	0.40	1.20	**********	**********	**********	**********	**********	**********
ARITHMETIC MEAN	38.50	24.50	0.73	1.50	0.03	0.39	0.03	0.08	0.05	6.25
STD. DEVIATION	6.8557	10.3440	0.2886	0.4358	0.0206	0.5464	0.0100	0.0590	0.0358	0.9983
NO. OF VALUES	4	4	3	3	4	4	4	4	4	4

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA, 11/16/70

STATION 571038.
GIBBON R. AT GIBBON R. RAPIDS
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	930. SODIUM NA.DISS MG/L	935. POTASSIUM K.DISS MG/L	950. FLUORIDE F.DISS MG/L	1020. BORON B.DISS UG/L	1040. COPPER CU UG/L	1045. IRON TOTAL UG/L	1055. MANGNESE MN UG/L	1090. ZINC ZN.DISS UG/L	1145. SELENIUM SE.DISS UG/L	9503. RA-226 DISOLVED PC/L
70/ 5/ 8 1230	32.00	9.70	2.50	**********	0.00+	950.00	80.00	0.00+**********	**********	**********
70/ 5/27 1045	19.88	4.30	1.00	**********	0.00+	550.00	50.00	0.00+**********	**********	**********
70/ 7/21 1220	37.00	8.40	2.90	**********	0.00+	330.00	0.00+	0.00+**********	**********	**********
70/ 8/ 5 1010	42.00	9.10	3.10	**********	0.00+	390.00	30.00	0.00+**********	**********	**********
ARITHMETIC MEAN	37.50	7.87	2.37	0.00	0.00	579.99	40.00	0.00	0.00	0.00
STD. DEVIATION	13.8203	2.4418	0.9500	0.0000	0.0000	283.3784	33.6650	0.0000	0.0000	0.0000
NO. OF VALUES	4	4	4	0	4	4	4	4	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA, 11/10/70

STATION 571038.
GIBBON R. AT GIBBON R. RAPIDS
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	925. MGNSIUM MG.DISS MG/L	1005. BARIUM BA.DISS UG/L	1049. LEAD PB.DISS UG/L	720. CYANIDE CN MG/L	1000. ARSENIC AS.DISS UG/L	32730. PHENOLS UG/L	900. RESIDUE TOTAL MG/L	915. RESIDUE TOT FLT MG/L	22703. U-NAT DISOLVED UG/L
70/ 5/ 6 1230	1.20	0.00+	0.00+**********	**********	**********		291.00	291.00	**********
70/ 5/27 1045	0.70	0.00+	0.00+**********	**********	**********		153.00	114.00	**********
70/ 7/21 1220	1.50	0.00+	0.00+**********	**********	**********		221.00	183.00	**********
70/ 8/ 3 1010	1.40	0.00+	0.00+**********	**********	**********		237.00	234.00	**********
ARITHMETIC MEAN	1.20	0.00	0.00	0.00	0.00	0.00	225.50	209.50	0.00
STD. DEVIATION	0.3559	0.0000	0.0000	0.0000	0.0000	0.0000	56.8596	75.2795	0.0000
NO. OF VALUES	4	4	4	0	0	0	4	4	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM-BACT: 11/16/70

STATION 571038.
GIBBON R. AT GIBBON R. RAPIDS
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	955: SILICA SIO2 MG/L	680: T ORG C C MG/L	38260: HBAS MG/L	31501: COLIFORM IMEDENDO MF/100ML	31616: FEC COLI MF-C44.5 MF/100ML	31673: STPCOCCI KF AGR MF/100ML
70/ 5/ 8 1230	**********	14.00	**********	**********	**********	**********
70/ 5/18 810	**********	**********	**********	60.00	45.00	**********
70/ 5/19 1140	**********	**********	**********	93.00	26.00	**********
70/ 5/20 1155	**********	**********	**********	29.00	6.00	**********
70/ 5/21 820	**********	**********	**********	40.00	20.00	**********
70/ 5/22 820	**********	8.00	**********	63.00	60.00	**********
70/ 5/29 830	**********	**********	**********	30.00	20.00	**********
70/ 7/21 1220	67.00	11.00	**********	**********	**********	**********
70/ 8/ 3 1010	73.00	11.00	**********	**********	**********	**********
70/ 8/ 9 1030	**********	**********	**********	**********	7.00	22.00
70/ 8/15 1150	**********	**********	**********	**********	6.00	7.00
70/ 8/16 935	**********	**********	**********	**********	6.00	14.00
70/ 8/17 825	**********	**********	**********	**********	8.00	26.00
70/ 8/18 950	**********	**********	**********	**********	7.00	15.00
70/ 8/19 1015	**********	**********	**********	**********	12.00	20.00
ARITHMETIC MEAN	70.00	11.00	0.00	51.00	18.58	17.66
STD. DEVIATION	4.2426	2.4495	0.0000	26.5028	17.9056	6.9929
NO. OF VALUES	2	4	0	6	12	6

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA, 11/16/70

STATION 571659.
GIBBON RIVER BELOW NORRIS CAMPGR
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	10. WATER TEMP CENT	20. AIR TEMP CENT	3. VSAMPLOC DEPTH FEET	60. STREAM FLOW CUFT/SEC	300. DO MG/L	400. PH S U	403. LAB PH SU	95. CNDUCTVY AT 25C MICROMHO	78. TURB JKSN JU	410. T ALK CACO3 MG/L
70/ 5/ 7 1510	9.00	10.00	**********	**********	7.70	7.20	7.20	113.00	1.90	41.00
70/ 5/18 755	4.00	8.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 5/19 1145	**********	16.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 5/20 1212	7.00	14.00	**********	**********	**********	**********	7.20	**********	**********	**********
70/ 5/21 805	3.00	2.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 5/22 805	3.00	1.00	**********	**********	**********	**********	6.50	**********	**********	**********
70/ 5/27 1100	7.00	15.00	**********	**********	8.30	6.40	6.20	33.00	2.20	19.00
70/ 5/29 915	4.00	12.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 7/21 1240	15.00	20.00	**********	84.00	8.20	6.30	7.00	98.00	0.90	31.00
70/ 8/ 2 1515	23.00	17.00	**********	69.00	7.90	7.00	6.50	98.00	1.00	30.00
70/ 8/ 9 930	11.00	18.00	**********	**********	**********	**********	6.90	**********	**********	**********
70/ 8/15 1220	14.00	19.00	**********	**********	**********	**********	6.90	**********	**********	**********
70/ 8/16 945	10.30	17.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 8/17 810	11.00	10.00	**********	**********	**********	**********	6.90	**********	**********	35.00
70/ 8/18 1015	10.30	17.00	**********	60.00	**********	**********	**********	**********	**********	**********
70/ 8/19 1030	13.00	16.00	**********	**********	**********	**********	**********	**********	**********	**********
ARITHMETIC MEAN	9.66	13.25	0.00	71.00	8.02	6.72	6.81	90.29	1.50	30.40
STD. DEVIATION	5.4039	5.7096	0.0000	12.1244	0.2754	0.4425	0.3498	24.7841	0.6480	9.6393
NO. OF VALUES	11	16	0	3	4	4	9	4	4	5

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/14/70

STATION 271039.
GIBBON RIVER BELOW NORRIS CAMPGR
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	940. CHLORIDE CL MG/L	945. SULFATE SO4 MG/L	300. BOD 2 DAY MG/L	310. BOD 5 DAY MG/L	610. AMMONIA NH3-N MG/L	625. TOT KJEL N MG/L	630. NO2&NO3 N MG/L	665. PHOS-T P-WET MG/L	72507. PHOS-T ORTHO MG/L-P	915. CALCIUM CA.DISS MG/L
70/ 5/ 7 1910	9.00	19.00	**********	**********	0.03	0.09	0.06	0.04	0.03	9.70
70/ 5/10 1212	**********	**********	0.60	1.10	**********	**********	**********	**********	**********	**********
70/ 5/12 803	**********	**********	1.00	1.90	**********	**********	**********	**********	**********	**********
70/ 5/31 1100	15.00	13.00	**********	**********	0.03	0.43	0.02	0.01	0.00	4.70
70/ 7/21 1240	3.00	7.80	**********	**********	0.01	0.13	0.01	0.04	0.01	4.40
70/ 8/ 2 1515	4.30	6.60	**********	**********	0.00+	0.00+	0.01	0.06	0.00+	9.20
70/ 8/ 9 730	**********	**********	0.60	1.10	**********	**********	**********	**********	**********	**********
ARITHMETIC MEAN	7.75	11.60	0.73	1.23	0.01	0.16	0.02	0.03	0.01	9.00
STD. DEVIATION	5.8000	5.6619	0.2309	0.2309	0.0150	0.1864	0.0238	0.0294	0.0141	0.8718
NO. OF VALUES	4	4	3	3	4	4	4	4	4	4

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 11/16/70

STATION 471038.
GIBBON RIVER BELOW NORRIS CAMPGR
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	930: SODIUM NA:DISS MG/L	933: POTASSIUM K:DISS MG/L	950: FLUORIDE F:DISS MG/L	1020: BORON B:DISS UG/L	1040: COPPER CU UG/L	1049: IRON TOTAL UG/L	1055: MANGANESE MN UG/L	1090: ZINC ZN:DISS UG/L	1145: SELENIUM SE:DISS UG/L	9502: RA-226 DISSOLVED PC/L
70/ 6/ 7 1910	10.00	4.20	2.20	**********	0.00*	400.00	80.00	0.00	**********	**********
70/ 6/29 1100	6.10	2.10	0.80	**********	0.00*	180.00	40.00	0.00	**********	**********
70/ 7/21 1200	11.00	3.60	2.20	**********	0.00*	200.00	0.00*	0.00	**********	**********
70/ 8/ 2 1515	11.00	4.10	2.20	**********	0.00*	227.00	0.00*	0.00	**********	**********
ARITHMETIC MEAN	11.02	3.99	1.82	0.00	0.00	292.33	30.00	0.00	0.00	0.00
STD. DEVIATION	0.0417	0.9449	0.0783	0.0000	0.0000	317.1028	38.2970	0.0000	0.0000	0.0000
NO. OF VALUES	4	4	4	0	4	4	4	4	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA, 11/16/70

STATION 971039.
GIBBON RIVER BELOW NORRIS CAMPGR
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	925. MAGNESIUM MG.DISS MG/L	1005. BARIUM BA.DISS UG/L	1049. LEAD PB.DISS UG/L	720. CYANIDE CN MG/L	1000. ARSENIC AS.DISS UG/L	32730. PHENOLS UG/L	500. RESIDUE TOTAL MG/L	515. RESIDUE TOT FLT MG/L	22703. U-NAT DISOLVED UG/L
70/ 5/ 7 1510	1.00	0.00+	0.00+	**********	**********	**********	139.00	112.00	**********
70/ 5/27 1100	0.60	0.00+	0.00+	**********	**********	**********	79.00	69.00	**********
70/ 7/21 1240	0.70	0.00+	0.00+	**********	**********	**********	111.00	58.00	**********
70/ 8/ 2 1515	0.30	0.00+	0.00+	**********	**********	**********	109.00	32.00	**********
ARITHMETIC MEAN	0.77	0.00	0.00	0.00	0.00	0.00	107.50	66.75	0.00
STD. DEVIATION	0.1707	0.0000	0.0000	0.0000	0.0000	0.0000	26.2489	33.3404	0.0000
NO. OF VALUES	4	4	4	0	0	0	4	4	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM-BACT. 11/16/70

STATION 571039.
GIBBON RIVER BELOW NORRIS CAMPGR
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	955. SILICA $102 MG/L	68L. T CHG C C MG/L	38260. HBAS MG/L	31501. COLIFORM IMEDENDO MF/100ML	31616. FEC COLI MF=C44.5 MF/100ML	31673. STPCOCCI KF AGR FF/100ML
70/ 5/ 7 1510	**********	12.00	**********	**********	**********	**********
70/ 5/18 755	**********	**********	**********	29.00	8.00	**********
70/ 5/19 1145	**********	**********	**********	40.00	8.00	**********
70/ 5/20 1210	**********	**********	**********	170.00	110.00	**********
70/ 5/21 805	**********	**********	**********	22.00	20.00	**********
70/ 5/22 805	**********	8.00	**********	60.00	50.00	**********
70/ 5/29 915	**********	**********	**********	12.00	9.00	**********
70/ 7/21 1240	39.00	7.00	**********	**********	**********	**********
70/ 8/ 2 1515	40.00	8.00	**********	**********	**********	**********
70/ 8/ 9 930	**********	**********	**********	**********	**********	**********
70/ 8/13 1220	**********	**********	**********	**********	10.00	11.00
70/ 8/16 945	**********	**********	**********	**********	2.00	7.00
70/ 8/17 810	**********	**********	**********	**********	14.00	21.00
70/ 8/18 1015	**********	**********	**********	**********	15.00	45.00
70/ 8/19 1030	**********	**********	**********	**********	2.00	5.00
ARITHMETIC MEAN	39.50	8.75	0.00	54.33	21.50	16.50
STD. DEVIATION	0.7071	2.2173	0.0000	58.8435	30.5866	15.0166
NO. OF VALUES	2	4	0	6	12	6

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA, 11/16/70

STATION 5T1040.
FIREHOLE R. AT MADISON JUNCTION
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	10. WATER TEMP CENT	20. AIR TEMP CENT	3. V&AMPLOC DEPTH FEET	60. STREAM FLOW CUFT/SEC	300. DO MG/L	400. PH S U	403. LAB PH SU	95. CNDUCTVY AT 25C MICROMHO	70. TURB JKSN JU	410. T ALK CACO3 MG/L
70/ 5/ 6 1300	12.00	9.00	**********	**********	7.80	7.00	8.20	376.00	1.50	106.00
70/ 5/18 825	11.00	7.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 5/19 1010	12.00	8.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 5/20 1001	11.00	13.00	**********	**********	**********	**********	7.80	**********	**********	**********
70/ 5/21 845	12.00	3.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 5/22 840	12.00	3.00	**********	**********	**********	**********	7.70	**********	**********	**********
70/ 5/23 1910	13.50	12.00	**********	**********	8.30	7.60	7.70	283.00	3.20	68.00
70/ 5/27 930	9.00	12.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 7/21 1030	20.00	16.00	**********	**********	6.60	7.80	7.90	434.00	0.70	108.00
70/ 8/ 3 930	18.00	18.00	**********	**********	7.30	8.10	7.80	439.00	0.50	109.00
70/ 8/12 1025	20.00	14.00	**********	**********	**********	**********	8.10	**********	**********	**********
70/ 8/16 735	10.00	6.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 8/17 1110	21.00	24.00	**********	**********	**********	**********	8.30	**********	**********	109.00
70/ 8/18 748	17.50	6.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 8/19 745	18.00	4.00	**********	**********	**********	**********	**********	**********	**********	**********
ARITHMETIC MEAN	15.08	10.06	0.00	0.00	7.50	7.62	7.93	387.89	1.47	99.40
STD. DEVIATION	4.0154	6.1698	0.0000	0.0000	0.7257	0.4844	0.2778	77.7311	1.2284	17.4439
NO. OF VALUES	13	13	0	0	4	4	8	4	4	5

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA 11/16/70

STATION 5710400
FIREHOLE R. AT MADISON JUNCTION
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	940. CHLORIDE CL MG/L	945. SULFATE SO4 MG/L	304. BOD 2 DAY MG/L	310. BOD 5 DAY MG/L	610. AMMONIA NH3-N MG/L	625. TOT KJEL N MG/L	630. NO2&NO3 N MG/L	665. PHOS-T P-WET MG/L	70507. PHOS-T ORTHO MG/L-P	919. CALCIUM CA.DISS MG/L
70/ 5/ 8 1300	56.00	24.00	**********	**********	0.01	0.30	0.02	0.16	0.15	6.70
70/ 5/20 1001	**********	**********	0.60	1.40	**********	**********	**********	**********	**********	**********
70/ 5/22 840	**********	**********	0.60	1.10	**********	**********	**********	**********	**********	**********
70/ 5/29 1510	2.00	13.00	**********	**********	0.02	0.20	0.01	0.03	0.00	5.30
70/ 7/21 1030	59.00	11.00	**********	**********	0.02	0.04	0.00+	0.16	0.16	5.70
70/ 8/ 3 935	61.00	12.00	**********	**********	0.00+	0.00+	0.00+	0.19	0.16	5.40
70/ 8/12 1025	**********	**********	0.50	0.80	**********	**********	**********	**********	**********	**********
ARITHMETIC MEAN	44.50	15.00	0.56	1.10	0.01	0.63	0.00	0.13	0.11	5.27
STD. DEVIATION	28.4077	6.0553	0.0577	0.3000	0.0095	1.1133	0.0095	0.0714	0.0765	0.4193
NO. OF VALUES	4	4	3	3	4	4	4	4	4	4

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 5710+0.
FIREHOLE R. AT MADISON JUNCTION
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	930. SODIUM NA.DISS MG/L	935. POTASSIUM K.DISS MG/L	950. FLUORIDE F.DISS MG/L	1020. BORON B.DISS UG/L	1040. COPPER CU UG/L	1045. IRON TOTAL UG/L	1055. MANGANESE MN UG/L	1090. ZINC ZN.DISS UG/L	1165. SELENIUM SE.DISS UG/L	9503. RA-226 DISSOLVED PC/L
70/ 5/ 8 1300	71.00	7.10	8.80 **********		8.00+	100.00	0.00+	0.00+**********		**********
70/ 5/25 1510	55.00	5.80	5.00 **********		2.00+	250.00	50.00	0.00+**********		**********
70/ 7/21 1030	82.00	9.30	8.20 **********		3.00+	120.00	0.00+	0.00+**********		**********
70/ 8/ 3 935	86.00	9.20	8.80 **********		0.00+	0.00+	0.00+	0.00+**********		**********
ARITHMETIC MEAN	73.50	7.85	7.70	0.00	0.00	117.50	12.50	0.00	0.00	0.00
STD. DEVIATION	15.8685	1.7019	1.8220	0.0000	0.0000	102.7536	24.9999	0.0000	0.0000	0.0000
NO. OF VALUES	4	4	4	0	4	4	4	4	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 5710400.
FIREHOLE R. AT MADISON JUNCTION
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	925. MGNSIUM MG.DISS MG/L	1005. BARIUM BA.DISS UG/L	1049. LEAD PB.DISS UG/L	720. CYANIDE CN MG/L	1000. ARSENIC AS.DISS UG/L	32730. PHENOLS UG/L	500. RESIDUE TOTAL MG/L	515. RESIDUE TOT FLT MG/L	22703. U-NAT DISOLVED UG/L
70/ 5/ 8 1300	0.50	0.00+	0.00+**********	**********	**********	337.00	337.00	**********	
70/ 5/23 1910	0.60	0.00+	0.00+**********	**********	**********	244.00	213.00	**********	
70/ 7/21 1030	0.50	0.00+	0.00+**********	**********	**********	366.00	309.00	**********	
70/ 8/ 3 935	0.50	0.00+	0.00+**********	**********	**********	356.00	343.00	**********	
ARITHMETIC MEAN	0.52	0.00	0.00	0.00	0.00	0.00	325.74	300.[illegible]	0.00
STD. DEVIATION	0.0500	0.0000	0.0000	0.0000	0.0000	0.0000	59.8123	60.1865	0.0000
NO. OF VALUES	4	4	4	0	0	0	4	4	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM-BACT. 11/16/70

STATION 971040.
FIREHOLE R. AT MADISON JUNCTION
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	955. SILICA SIO2 MG/L	680. T ORG C C MG/L	38260. MBAS MG/L	31501. COLIFORM INEDENDO MF/100ML	31616. FEC COLI MF-C44.5 MF/100ML	31679. STPCOCCI KF AGR MF/100ML
70/ 5/ 8 1300	**********	28.00	**********	**********	**********	**********
70/ 5/18 825	**********	**********	**********	30.00	30.00	**********
70/ 5/19 1010	**********	**********	**********	50.00	50.00	**********
70/ 5/20 1000	**********	**********	**********	37.00	34.00	**********
70/ 5/21 845	**********	**********	**********	100.00	92.00	**********
70/ 5/22 840	**********	**********	**********	33.00	20.00	**********
70/ 5/29 950	**********	**********	**********	450.00	190.00	**********
70/ 7/21 1030	110.00	29.00	**********	**********	**********	**********
70/ 8/ 3 955	105.00	25.00	**********	**********	**********	**********
70/ 8/12 1025	**********	**********	**********	**********	29.00	31.00
70/ 8/16 755	**********	**********	**********	**********	28.00	150.00
70/ 8/17 1110	**********	**********	**********	**********	14.00	42.00
70/ 8/18 745	**********	**********	**********	**********	23.00	71.00
70/ 8/19 745	**********	**********	**********	**********	13.00	81.00
ARITHMETIC MEAN	107.50	26.00	0.00	116.66	44.09	78.60
STD. DEVIATION	3.5360	1.7321	0.0000	169.3426	49.9308	49.8828
NO. OF VALUES	2	3	0	6	11	5

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 5710410. FIREHOLE R. BELOW LITTLE FIRE R.
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	10. WATER TEMP CENT	20. AIR TEMP CENT	3. VEAMPLOC DEPTH FEET	60. STREAM FLOW CUFT/SEC	300. DO MG/L	400. PH S U	409. LAB PH SU	95. CNDUCTVY AT 25C MICROMHO	70. TURB JKSN JU	410. T ALK CACO3 MG/L
70/ 5/ 8 1320	14.00	8.00	**********	**********	8.40	8.00	9.20	240.00	1.20	73.00
70/ 5/18 845	10.00	11.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 5/19 1025	9.00	10.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 5/20 1022	11.00	13.00	**********	**********	**********	**********	7.40	**********	**********	**********
70/ 5/21 855	10.00	3.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 5/22 900	10.00	3.00	**********	**********	**********	**********	7.30	**********	**********	**********
70/ 5/23 1530	12.00	14.00	**********	**********	7.60	7.60	7.60	179.00	2.40	43.00
70/ 5/27 940	5.50	11.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 7/21 1020	20.00	16.00	**********	**********	7.60	7.40	7.80	277.00	0.50	60.00
70/ 8/ 3 910	17.00	15.00	**********	**********	7.30	7.70	7.40	255.00	0.40	64.00
70/ 8/12 1030	19.00	32.00	**********	**********	**********	**********	7.60	**********	**********	**********
70/ 8/16 725	16.50	5.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 8/17 1125	20.00	26.00	**********	**********	**********	**********	8.00	**********	**********	65.00
70/ 8/18 730	17.00	6.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 8/19 730	16.00	4.00	**********	**********	**********	**********	**********	**********	**********	**********
ARITHMETIC MEAN	13.80	11.46	0.00	0.00	7.77	7.67	7.78	237.75	1.12	62.60
STD. DEVIATION	4.4992	8.3552	0.0000	0.0000	0.4646	0.2501	0.6131	42.0112	0.9215	11.5022
NO. OF VALUES	15	15	0	0	4	4	5	4	4	5

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 9719415
FIREHOLE R. BELOW LITTLE FIRE R.
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	940. CHLORIDE CL MG/L	945. SULFATE SO4 MG/L	394. BOD 2 DAY MG/L	310. BOD 5 DAY MG/L	610. AMMONIA NH3-N MG/L	625. TOT KJEL N MG/L	630. NO2&NO3 N MG/L	665. PHOS-T P-WET MG/L	70507. PHOS-T ORTHO MG/L-P	915. CALCIUM CA,DISS MG/L
70/ 5/ 8 1710	36.00	14.00	**********	**********	0.01	0.10	0.02	0.08	0.07	3.90
70/ 5/20 1022	**********	**********	0.70	1.30	**********	**********	**********	**********	**********	**********
70/ 5/22 900	**********	**********	0.80	1.00	**********	**********	**********	**********	**********	**********
70/ 5/25 1530	21.00	11.00	**********	**********	0.00+	0.10	0.02	0.03	0.00	4.10
70/ 7/21 1020	36.00	8.60	**********	**********	0.02	0.04	0.00+	0.22	0.07	4.50
70/ 8/ 3 910	33.00	5.00	**********	**********	0.01	0.21	0.00+	0.09	0.08	4.30
70/ 8/12 1030	**********	**********	0.40	0.40	**********	**********	**********	**********	**********	**********
ARITHMETIC MEAN	31.50	9.65	0.63	0.90	0.01	0.06	0.01	0.10	0.05	4.20
STD. DEVIATION	7.1414	3.8065	0.2081	0.4582	0.0081	0.0450	0.0115	0.0810	0.0354	0.2582
NO. OF VALUES	4	4	3	3	4	4	4	4	4	4

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 11/16/76

STATION 9710+1.
FIREHOLE R. BELOW LITTLE FIRE R.
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	930. SODIUM NA,DISS MG/L	935. PTSSIUM K,DISS MG/L	950. FLUORIDE F,DISS MG/L	1020. BORON B,DISS UG/L	1040. COPPER CU UG/L	1045. IRON TOYAL UG/L	1055. MANGNESE MN UG/L	1090. ZINC ZN,DISS UG/L	1148. SELENIUM SE,DISS UG/L	9502. RA-226 DISOLVED PC/L
70/ 5/ 8 1320	48.00	5.30	5.00 **********		0.00+	130.00	30.00	**********	**********	**********
70/ 5/23 1530	33.00	4.10	3.30 **********		0.00+	190.03	40.00	0.00	**********	**********
70/ 7/21 1020	49.00	4.40	5.80 **********		0.00+	0.00+	0.00+	0.00	**********	**********
70/ 8/ 3 910	48.00	6.80	6.30 **********		0.00+	0.00+	0.00+	0.00	**********	**********
ARITHMETIC MEAN	44.50	5.15	5.15	0.00	0.00	75.00	17.50	0.00	0.00	0.00
STD. DEVIATION	7.6812	1.2124	1.3772	0.0000	0.0000	86.6024	20.6155	0.0000	0.0000	0.0000
NO. OF VALUES	4	4	4	0	4	4	4	2	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 5710410.
FIREHOLE R. BELOW LITTLE FIRE R.
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	925. MGNSIUM MG.DISS MG/L	1005. BARIUM BA.DISS UG/L	1049. LEAD PB.DISS UG/L	720. CYANIDE CN MG/L	1000. ARSENIC AS.DISS UG/L	32730. PHENOLS UG/L	500. RESIDUE TOTAL MG/L	515. RESIDUE TOT FLT MG/L	22703. U-NAT DISOLVED UG/L
70/ 5/ 8 1320	0.40	0.00+**********	**********	**********	**********	**********	233.00	218.00	**********
70/ 5/23 1530	0.40	0.00+	0.00+**********	**********	**********	**********	159.00	132.00	**********
70/ 7/21 1020	0.40	0.00+	0.00+**********	**********	**********	**********	224.00	213.00	**********
70/ 8/ 3 910	0.40	0.00+	0.00+**********	**********	**********	**********	254.00	218.00	**********
ARITHMETIC MEAN	0.40	0.00	0.00	0.00	0.00	0.00	217.50	199.25	0.00
STD. DEVIATION	0.0002	0.0000	0.0000	0.0000	0.0000	0.0000	40.9759	42.2327	0.0000
NO. OF VALUES	4	4	3	0	0	0	4	4	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM-BACT. 11/16/70

STATION 571041.
FIREHOLE R. BELOW LITTLE FIRE R.
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	955. SILICA SIO2 MG/L	680. T ORG C C MG/L	38260. MBAS MG/L	31501. COLIFORM IMEDENDO MF/100ML	31616. FEC COLI MF-C44.5 MF/100ML	31673. STPCOCCI KF AGR MF/100ML
70/ 5/ 6 1320	**********	26.00	**********	**********	**********	**********
70/ 5/18 945	**********	**********	**********	40.00	40.00	**********
70/ 5/19 1025	**********	**********	**********	40.00	20.00	**********
70/ 5/20 1020	**********	**********	**********	48.00	30.00	**********
70/ 5/21 855	**********	**********	**********	140.00	90.00	**********
70/ 5/22 900	**********	**********	**********	60.00	48.00	**********
70/ 5/23 1330	**********	14.00	**********	**********	**********	**********
70/ 5/27 940	**********	**********	**********	240.00	120.00	**********
70/ 7/21 1020	81.00	17.00	**********	**********	**********	**********
70/ 8/ 3 910	86.00	17.00	**********	**********	**********	**********
70/ 8/12 1030	**********	**********	**********	**********	8.00	24.00
70/ 8/16 730	**********	**********	**********	**********	21.00	77.00
70/ 8/17 1125	**********	**********	**********	**********	13.00	21.00
70/ 8/18 730	**********	**********	**********	**********	14.00	36.00
70/ 8/19 730	**********	**********	**********	**********	21.00	92.00
ARITHMETIC MEAN	83.50	18.50	0.00	94.66	38.36	46.00
STD. DEVIATION	3.5338	5.1961	0.0000	80.6658	35.7163	23.4840
NO. OF VALUES	2	4	0	6	11	9

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 5710420.
FIREHOLE R. NEAR KEPLER CASCADES
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	10. WATER TEMP CENT	20. AIR TEMP CENT	3. VSAMPLOC DEPTH FEET	60. STREAM FLOW CUFT/SEC	300. DO MG/L	400. PH S U	403. LAB PH SU	95. CNDUCTVY AT 25C MICROMHO	70. TURB JKSN JU	410. T ALK CACO3 MG/L
70/ 5/ 6 1335	7.00	6.00	**********	**********	8.40	7.70	7.70	113.00	1.50	28.00
70/ 5/18 859	6.00	12.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 5/19 1035	6.00	11.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 5/20 1035	7.00	14.00	**********	**********	**********	**********	6.80	**********	**********	**********
70/ 5/21 910	6.00	3.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 5/22 910	6.00	4.00	**********	**********	**********	**********	6.60	**********	**********	**********
70/ 5/23 1400	7.50	13.00	**********	139.00	8.50	7.10	6.90	74.00	3.20	19.00
70/ 5/27 840	3.50	8.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 7/21 940	14.00	15.00	**********	64.60	8.00	7.00	7.00	98.00	0.70	22.00
70/ 8/ 3 830	10.00	14.00	**********	61.10	8.50	7.80	6.40	109.00	0.70	21.00
70/ 8/12 1230	16.00	24.00	**********	**********	**********	**********	7.30	**********	**********	**********
70/ 8/16 705	10.50	4.50	**********	**********	**********	**********	**********	**********	**********	**********
70/ 8/17 1145	14.00	20.50	**********	**********	**********	**********	7.10	**********	**********	21.00
70/ 8/18 715	10.50	7.00	**********	58.30	**********	**********	**********	**********	**********	**********
70/ 8/19 715	10.50	3.00	**********	**********	**********	**********	**********	**********	**********	**********
ARITHMETIC MEAN	8.96	10.96	0.00	80.75	8.35	7.35	6.97	97.50	1.52	21.40
STD. DEVIATION	3.6177	7.0823	0.0000	38.9167	0.2362	0.3512	0.4062	16.8228	1.1786	4.6192
NO. OF VALUES	15	15	0	4	4	4	8	4	4	5

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA- 11/10/70

STATION 5710420
FIREHOLE R. NEAR KEPLER CASCADES
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	940- CHLORIDE Cl MG/L	945- SULFATE SO4 MG/L	300- BOD 5 DAY MG/L	310- BOD 5 DAY MG/L	610- AMMONIA NH3-N MG/L	625- TOT KJEL N MG/L	630- NO2&NO3 N MG/L	665- PHOS-T P-WET MG/L	70507- PHOS-T ORTHO MG/L-P	915- CALCIUM CA-DISS MG/L
70/ 8/ 6 1335	19.00	14.00	**********	**********	0.00<	0.10	0.61	0.04	0.03	3.40
70/ 5/20 1035	**********	**********	0.40	1.00	**********	**********	**********	**********	**********	**********
70/ 5/22 910	**********	**********	0.60	0.80	**********	**********	**********	**********	**********	**********
70/ 5/25 1440	9.00	10.00	**********	**********	0.02	0.23	0.03	0.03	0.00	3.20
70/ 7/21 940	11.00	9.10	**********	**********	0.03	0.04	0.00<	0.13	0.08	3.30
70/ 8/ 3 830	13.00	9.20	**********	**********	0.02	0.03	0.00<	0.28	0.20	3.30
70/ 8/12 1250	**********	**********	0.20	0.30	**********	**********	**********	**********	**********	**********
ARITHMETIC MEAN	13.00	8.57	0.40	0.76	0.01	0.10	0.01	0.12	0.07	3.33
STD. DEVIATION	4.3265	4.2789	0.2000	0.2916	0.0125	0.0920	0.0141	0.1167	0.0860	0.1291
NO. OF VALUES	4	4	3	3	4	4	4	4	4	4

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 11/16/70

STATION 5710420.
FIREHOLE R. NEAR KEPLER CASCADES
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	930. SODIUM NA,DISS MG/L	935. PTSSIUM K,DISS MG/L	950. FLUORIDE F,DISS MG/L	1020. BORON B,DISS UG/L	1040. COPPER CU UG/L	1045. IRON TOTAL UG/L	1055. MANGNESE MN UG/L	1090. ZINC ZN,DISS UG/L	1145. SELENIUM SE,DISS UG/L	9501. RA-226 DISOLVED PC/L
70/ 5/ 8 1335	17.00	3.50	2.50	**********	0.00+	250.00	0.00+	0.00+**********	**********	
70/ 5/21 1400	11.00	2.90	1.30	**********	0.00+	150.00	50.00	0.00+**********	**********	
70/ 7/21 940	14.00	3.60	2.30	**********	0.00+	0.00+	0.00+	0.00+**********	**********	
70/ 8/ 3 830	19.00	4.20	2.40	**********	0.00+	0.00+	0.00+	0.00+**********	**********	
ARITHMETIC MEAN	14.25	3.55	2.12	0.00	0.00	100.00	12.50	0.00	0.00	0.00
STD. DEVIATION	2.5000	0.5322	0.5560	0.0000	0.0000	122.4744	24.9999	0.0000	0.0000	0.0000
NO. OF VALUES	4	4	4	0	4	4	4	4	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/18/70

STATION 5710420.
FIREHOLE R. NEAR KEPLER CASCADES
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	925. MAGNESIUM MG.DISS MG/L	1005. BARIUM BA.DISS UG/L	1049. LEAD PB.DISS UG/L	720. CYANIDE CN MG/L	1000. ARSENIC AS.DISS UG/L	32730. PHENOLS UG/L	500. RESIDUE TOTAL MG/L	515. RESIDUE TOT FLT MG/L	22703. U-NAT DISOLVED UG/L
70/ 5/ 6 1335	0.50	0.00+	0.00+**********	**********	**********	**********	**********	87.00	**********
70/ 5/23 1600	0.40	0.00+	0.00+**********	**********	**********	**********	101.00	57.00	**********
70/ 7/21 940	0.40	0.00+	0.00+**********	**********	**********	**********	121.00	99.00	**********
70/ 8/ 3 830	0.40	0.00+	0.00+**********	**********	**********	**********	140.00	102.00	**********
ARITHMETIC MEAN	0.42	0.00	0.00	0.00	0.00	0.00	114.00	86.25	0.00
STD. DEVIATION	0.0500	0.0000	0.0000	0.0000	0.0000	0.0000	22.5166	20.5487	0.0000
NO. OF VALUES	4	4	4	0	0	0	3	4	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM-BACT. 11/16/70

STATION 971042.
FIREHOLE R. NEAR KEPLER CASCADES
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	955. SILICA SIO2 MG/L	680. T ORG C C MG/L	38260. MBAS MG/L	31501. COLIFORM IMEDENDO MF/100ML	31616. FEC COLI MF-C44.5 MF/100ML	31673. STPCOCCI KF AGR MF/100ML
70/ 5/ 8 1335	**********	10.00	**********	**********	**********	**********
70/ 5/18 855	**********	**********	**********	66.00	40.00	**********
70/ 5/19 1035	**********	**********	**********	34.00	21.00	**********
70/ 5/20 1035	**********	**********	**********	20.00	14.00	**********
70/ 5/21 910	**********	**********	**********	46.00	42.00	**********
70/ 5/22 910	**********	**********	**********	28.00	6.00	**********
70/ 5/23 1600	**********	10.00	**********	**********	**********	**********
70/ 5/27 840	**********	**********	**********	44.00	38.00	**********
70/ 7/21 940	50.00	6.00	**********	**********	**********	**********
70/ 8/ 3 820	54.00	5.00	**********	**********	**********	**********
70/ 8/12 1250	**********	**********	**********	**********	4.00	7.00
70/ 8/16 705	**********	**********	**********	**********	48.00	33.00
70/ 8/17 1145	**********	**********	**********	**********	10.00	3.00
70/ 8/18 715	**********	**********	**********	**********	20.00	22.00
70/ 8/19 715	**********	**********	**********	**********	16.00	30.00
ARITHMETIC MEAN	52.00	7.75	0.00	39.66	23.34	19.40
STD. DEVIATION	2.8284	2.6299	0.0000	16.1699	19.6803	11.3490
NO. OF VALUES	2	4	0	6	11	5

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 5710430.
SYLVAN LAKE AT EAST ENTRANCE RD.
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	10. WATER TEMP CENT	20. AIR TEMP CENT	3. VSAMPLOC DEPTH FEET	60. STREAM FLOW CUFT/SEC	300. DO MG/L	400. PH S U	403. LAB PH SU	95. CNDUCTVY AT 25C MICROMHO	70. TURB JKSN JU	410. T ALK CACO3 MG/L
70/ 5/ 7 930	0.00	7.00	**********	**********	5.10	7.40	7.00	75.00	0.60	38.00
70/ 5/24 915	0.00	6.00	**********	**********	7.80	6.90	6.20	24.00	8.50	9.90
70/ 7/19 1315	20.00	26.00	**********	**********	7.80	7.00	7.20	62.00	2.00	29.00
70/ 8/ 1 935	18.00	25.00	**********	**********	7.60	7.90	6.70	65.00	0.50	30.00
ARITHMETIC MEAN	9.50	16.00	0.00	0.00	7.07	7.30	6.77	56.50	2.90	26.72
STD. DEVIATION	10.9999	10.9848	0.0000	0.0000	1.3200	0.4546	0.4349	22.3681	3.7956	11.9178
NO. OF VALUES	4	4	0	0	4	4	4	4	4	4

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA, 11/16/70

STATION 471043,
SYLVAN LAKE AT EAST ENTRANCE RD.
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	940, CHLORIDE CL MG/L	945, SULFATE SO4 MG/L	304, BOD 2 DAY MG/L	310, BOD 5 DAY MG/L	610, AMMONIA NH3-N MG/L	625, TOT KJEL N MG/L	630, NO2&NO3 N MG/L	665, PHOS-T P-WET MG/L	70507, PHOS-T ORTHO MG/L-P	915, CALCIUM CA,DISS MG/L
70/ 5/ 7 935	0.00	6.00	**********	**********	0.07	0.10	0.03	0.04	0.03	11.00
70/ 5/24 915	0.80	7.80	**********	**********	0.06	0.06	0.05	0.01	0.00	6.70
70/ 7/19 1313	0.30	6.00	**********	**********	0.01	0.14	0.00+	0.02	0.01	8.40
70/ 8/ 1 955	0.30	8.70	**********	**********	0.00	0.13	0.00+	0.14	0.00+	7.50
ARITHMETIC MEAN	2.35	7.12	0.00	0.00	0.03	0.10	0.02	0.05	0.01	7.90
STD. DEVIATION	3.7740	0.9429	0.0000	0.0000	0.0351	0.0359	0.0244	0.0596	0.0151	2.5987
NO. OF VALUES	4	4	0	0	4	4	4	4	4	4

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 11/16/70

STATION 5710e3.
SYLVAN LAKE AT EAST ENTRANCE RD.
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	930. SODIUM NA.DISS MG/L	935. PTSSIUM K.DISS MG/L	950. FLUORIDE F.DISS MG/L	1020. BORON B.DISS UG/L	1040. COPPER CU UG/L	1045. IRON TOTAL UG/L	1055. MANGNESE MN UG/L	1090. ZINC ZN.DISS UG/L	11-9. SELENIUM SE.DISS UG/L	9503. RA-226 DISOLVED PC/L
70/ 5/ 7 935	2.00	0.30	0.10 **********		0.00+	0.00+	30.00	0.00**********		0.01-
70/ 5/24 915	0.70	0.30	0.00**********		0.00+	900.00	80.00	0.00**********	**********	
70/ 7/19 1318	2.40	0.60	0.00**********		0.00+	300.00	0.00+	0.00**********	**********	
70/ 8/ 1 935	2.40	0.40	0.00**********		0.00+	0.00+	0.00+	0.00**********	**********	
ARITHMETIC MEAN	1.87	0.40	0.02	0.00	0.00	300.00	32.50	0.00	0.00	0.01
STD. DEVIATION	0.8097	0.1414	0.0500	0.0000	0.0000	424.2635	39.4757	0.0000	0.0000	0.0000
NO. OF VALUES	4	4	4	0	4	4	4	4	0	1

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 971043.
SYLVAN LAKE AT EAST ENTRANCE RD.
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	925. MAGNESIUM MG.DISS MG/L	1009. BARIUM BA.DISS UG/L	1049. LEAD PB.DISS UG/L	721. CYANIDE CN UG/L	1000. ARSENIC AS.DISS UG/L	32730. PHENOLS UG/L	900. RESIDUE TOTAL MG/L	919. RESIDUE TOT FLT MG/L	22703. UNNAT DISOLVED UG/L
70/ 5/ 7 935	1.60	0.00+	0.00**********	**********	**********	**********	60.00	93.00	0.00
70/ 5/24 915	0.90	0.00+	0.00**********	**********	**********	**********	58.00	17.00	**********
70/ 7/19 1315	1.70	0.00+	0.00**********	**********	**********	**********	**********	**********	**********
70/ 8/ 1 935	1.50	0.00+	0.00**********	**********	**********	**********	122.00	99.00	**********
ARITHMETIC MEAN	1.42	0.00	0.00	0.00	0.00	0.00	82.00	53.33	0.00
STD. DEVIATION	0.3993	0.0000	0.0000	0.0000	0.0000	0.0000	34.8712	36.9011	0.0000
NO. OF VALUES	4	4	4	0	0	0	3	3	1

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM-BACT. 11/16/73

STATION 571043.
SYLVAN LAKE AT EAST ENTRANCE RD.
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	955. SILICA SIO2 MG/L	680. T ORG C C MG/L	38260. MBAS MG/L	31501. COLIFORM IMEDENDO MF/100ML	31616. FEC COLI MF-C44.5 MF/100ML	31673. STPCOCCI KF AGR MF/100ML
70/ 5/ 7 935	**********	11.00	**********	**********	**********	**********
70/ 5/24 915	**********	4.00	**********	**********	**********	**********
70/ 7/19 1315	7.00	10.00	**********	**********	**********	**********
70/ 8/ 1 938	7.00	9.00	**********	**********	**********	**********
ARITHMETIC MEAN	7.00	8.50	0.00	0.00	0.00	0.00
STD. DEVIATION	0.0055	3.1091	0.0000	0.0000	0.0000	0.0000
NO. OF VALUES	2	4	0	0	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 971044.
MIDDLE CR. AT EAST PARK BOUNDARY
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	10. WATER TEMP CENT	20. AIR TEMP CENT	3. VSAMPLOC DEPTH FEET	60. STREAM FLOW CUFT/SEC	300. DO MG/L	400. PH S U	403. LAB PH SU	95. CNDUCTVY AT 25C MICROMHO	70. TURB JKSN JU	410. T ALK CACO3 MG/L
70/ 5/ 7 900	3.00	6.00	**********	**********	9.50	7.40	7.60	79.00	1.30	26.00
70/ 5/25 945	4.00	8.00	**********	**********	9.90	6.90	6.50	57.00	2.90	23.00
70/ 7/19 1215	9.00	24.00	**********	106.00	9.00	6.80	7.30	60.00	2.10	24.00
70/ 8/ 1 835	8.00	18.00	**********	61.20	9.60	7.70	6.80	67.00	0.60	27.00
ARITHMETIC MEAN	6.00	14.00	0.00	83.60	9.50	7.20	7.05	64.75	1.72	27.50
STD. DEVIATION	2.9439	8.4852	0.0000	31.6783	0.3742	0.4243	0.4933	8.0157	0.9945	5.9161
NO. OF VALUES	4	4	0	2	4	4	4	4	4	4

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA, 11/16/70

STATION 9710400
MIDDLE CR. AT EAST PARK BOUNDARY
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	940. CHLORIDE CL MG/L	945. SULFATE SO4 MG/L	304. BOD 2 DAY MG/L	310. BOD 5 DAY MG/L	610. AMMONIA NH3-N MG/L	625. TOT KJEL N MG/L	630. NO2&NO3 N MG/L	665. PHOS-T P-WET MG/L	70507. PHOS-T ORTHO MG/L-P	915. CALCIUM CA,DISS MG/L
70/ 5/ 7 900	3.00	14.00	**********	**********	0.00+	0.28	0.14	0.06	0.01	6.60
70/ 5/25 945	0.80	9.60	**********	**********	0.01	0.01	0.09	0.01	0.00	8.20
70/ 7/19 1215	0.10	8.00	**********	**********	0.03	0.15	0.00+	0.06	0.06	6.10
70/ 8/ 1 835	0.30	8.00	**********	**********	0.00+	0.05	0.00+	0.14	0.02	6.00
ARITHMETIC MEAN	1.05	9.90	0.00	0.00	0.01	0.12	0.04	0.06	0.02	6.72
STD. DEVIATION	1.5329	2.8354	0.0000	0.0000	0.0141	0.1203	0.0840	0.0537	0.0251	1.0177
NO. OF VALUES	4	4	0	0	4	4	4	4	4	4

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA, 11/16/70

STATION 9710440.
MIDDLE CR. AT EAST PARK BOUNDARY
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	930. SODIUM NA,DISS MG/L	935. PTSSIUM K,DISS MG/L	95C. FLUORIDE F,DISS MG/L	1020. BORON B,DISS UG/L	1040. COPPER CU UG/L	1045. IRON TOTAL UG/L	1055. MANGNESE MN UG/L	1090. ZINC ZN,DISS UG/L	1145. SELENIUM SE,DISS UG/L	9503. RA-226 DISOLVED PC/L
70/ 5/ 7 900	7.30	0.60	0.20 **********		0.00+	200.00	0.00+	0.00+**********	**********	
70/ 5/ 7 935	**********	**********	**********	**********	**********	**********	**********	**********	**********	0.01-
70/ 5/25 945	4.60	0.60	0.00+**********		0.00+	450.00	90.00	0.00+**********	**********	
70/ 7/10 1215	4.00	0.80	0.00+**********		0.00+	360.00	0.00+	0.00+**********	**********	
70/ 8/ 1 835	4.80	1.00	0.00+**********		0.00+	140.00	0.00+	0.00+**********	**********	
ARITHMETIC MEAN	5.17	0.75	0.05	0.00	0.00	287.50	12.50	0.00	0.00	0.01
STD. DEVIATION	1.4568	0.1914	0.0999	0.0000	0.0000	142.6826	24.9999	0.0000	0.0000	0.0000
NO. OF VALUES	4	4	4	0	4	4	4	4	0	1

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA 11/18/70

STATION 5710000.
MIDDLE CR. AT EAST PARK BOUNDARY
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	929. MAGNESIUM MG.DISS MG/L	1005. BARIUM BA.DISS UG/L	1049. LEAD PB.DISS UG/L	720. CYANIDE CN MG/L	1000. ARSENIC AS.DISS UG/L	32730. PHENOLS UG/L	500. RESIDUE TOTAL MG/L	515. RESIDUE TOT FLT MG/L	22703. U-NAT DISSOLVED UG/L
70/ 5/ 7 900	1.50	0.000	0.00	**********	**********	**********	66.00	63.00	**********
70/ 5/ 7 935	**********	**********	**********	**********	**********	**********	**********	**********	2.00
70/ 5/25 945	1.40	0.000	0.00	**********	**********	**********	91.00	67.00	**********
70/ 7/19 1215	1.50	0.000	0.00	**********	**********	**********	**********	**********	**********
70/ 8/ 1 835	1.40	0.000	0.00	**********	**********	**********	220.00	120.00	**********
ARITHMETIC MEAN	1.45	0.00	0.00	0.00	0.00	0.00	125.66	84.00	2.40
STD. DEVIATION	0.0577	0.0000	0.0000	0.0000	0.0000	0.0000	82.8458	31.1929	0.0000
NO. OF VALUES	4	4	4	0	0	0	3	3	1

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM-BACT. 11/10/70

STATION 9710000.
MIDDLE CR. AT EAST PARK BOUNDARY
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	955. SILICA SI02 MG/L	680. T ORG C C MG/L	38260. PHAS MG/L	31501. COLIFORM IMEDENDO MF/100ML	31616. FEC COLI MF-C44.5 MF/100ML	31673. STPCOCCI KF AGR MF/100ML
70/ 5/ 7 900	**********	10.00	**********	**********	**********	**********
70/ 5/25 945	**********	10.00	**********	**********	**********	**********
70/ 7/10 1215	17.00	9.00	**********	**********	**********	**********
70/ 8/ 1 830	18.00	9.00	**********	**********	**********	**********
ARITHMETIC MEAN	17.50	9.00	0.00	0.0	0.00	0.00
STD. DEVIATION	0.7071	1.0142	0.0000	0.0000	0.0000	0.0000
NO. OF VALUES	2	4	0	0	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 11/16/70

STATION 471049.
GRANT VILLAGE STP EFFLUENT
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	10. WATER TEMP CENT	20. AIR TEMP CENT	3. XSAMPLOC DEPTH FEET	60. STREAM FLOW CUFT/SEC	300. DO MG/L	400. PH S U	403. LAB PH SU	95. CNDUCTVT AT 25C MICROMHO	70. TURB JKSN JU	410. T ALK CACO3 MG/L
70/ 7/30 930	14.00	18.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 7/31 1045	13.00	19.00	**********	**********	**********	**********	7.30	**********	24.00	189.00
70/ 8/ 1 1020	13.00	13.34	**********	**********	**********	**********	**********	**********	**********	**********
70/ 8/ 2 1020	13.00	14.44	**********	**********	**********	**********	7.40	**********	20.00	181.00
70/ 8/ 3 1025	13.00	13.00	**********	**********	**********	**********	7.20	780.00	22.00	191.00
70/ 8/12 1001	**********	**********	**********	**********	**********	**********	8.10	**********	60.00	**********
70/ 8/12 1001	**********	**********	**********	**********	**********	**********	7.30	**********	33.00	**********
ARITHMETIC MEAN	13.20	13.10	0.00	0.00	0.00	0.00	7.46	780.00	32.20	187.00
sTDp DEVIATION	0.4473	1.7888	0.0000	0.0000	0.0000	0.0000	0.3647	0.0000	16.3691	9.2927
Nos OF VALUES	5	5	0	0	0	0	5	1	5	5

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/10/70

STATION 571069.
GRANT VILLAGE STP EFFLUENT
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	940. CHLORIDE CL MG/L	945. SULFATE SO4 MG/L	304. BOD 2 DAY MG/L	310. BOD 5 DAY MG/L	610. AMMONIA NH3-N MG/L	625. TOT KJEL N MG/L	630. NO2&NO3 N MG/L	665. PHOS-T P-WET MG/L	70507. PHOS-T ORTHO MG/L-P	915. CALCIUM CA.DISS MG/L
70/ 7/31 1048	**********	**********	22.00	48.00	**********	**********	**********	**********	**********	**********
70/ 8/ 2 1020	**********	**********	21.00	34.00	**********	**********	**********	**********	**********	**********
70/ 8/ 3 1025	2.00	37.00	**********	**********	51.00	58.00	2.00	16.00	14.00	**********
70/ 8/12 1000	**********	**********	**********	232.00	59.00	78.00	0.06	17.00	12.60	**********
70/ 8/12 1001	**********	**********	**********	71.00	50.00	61.00	0.90	17.20	14.60	**********
ARITHMETIC MEAN	2.00	37.00	21.50	96.25	53.33	65.65	0.98	16.73	13.66	0.00
STD. DEVIATION	0.0000	0.0000	0.7072	91.7763	4.9330	10.7859	0.9728	0.6430	0.9852	0.0000
NO. OF VALUES	1	1	2	4	3	3	3	3	3	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 11/10/70

STATION 971049.
GRANT VILLAGE STP EFFLUENT
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	920. SODIUM NA.DISS MG/L	935. PTSSIUM K.DISS MG/L	950. FLUORIDE F.DISS MG/L	1020. BORON B.DISS UG/L	1040. COPPER CU UG/L	1045. IRON TOTAL UG/L	1055. MANGNESE MN UG/L	1090. ZINC ZN.DISS UG/L	1145. SELENIUM SE.DISS UG/L	9502. RA-226 DISSOLVED PC/L
70/ 8/ 3 1025			0.60							
ARITHMETIC MEAN	0.00	0.00	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STD. DEVIATION	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NO. OF VALUES	0	0	1	0	0	0	0	0	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 471049.
GRANT VILLAGE STP EFFLUENT
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	929. MAGNESIUM MG.DISS MG/L	1009. BARIUM BA.DISS UG/L	1049. LEAD PB.DISS UG/L	720. CYANIDE CN MG/L	1000. ARSENIC AS.DISS UG/L	32730. PHENOLS UG/L	900. RESIDUE TOTAL MG/L	918. RESIDUE TOT FLT MG/L	227US. U-NAT DISSOLVED UG/L
70/ 8/ 3 1039	**********	**********	**********	**********	**********	**********	392.00	343.00	**********
ARITHMETIC MEAN	0.00	0.00	0.00	0.00	0.00	0.00	392.00	343.00	0.00
STD. DEVIATION	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NO. OF VALUES	0	0	0	0	0	0	1	1	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM-BACT. 11/16/70

STATION 971065.
GRANT VILLAGE STP EFFLUENT
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	955. SILICA SIO2 MG/L	680. T ORG C C MG/L	38260. MBAS MG/L	31501. COLIFORM IMEDENDO MF/100ML	31616. FEC COLI MF+C44.5 MF/100ML	31673. STPCOCCI KF AGR MF/100ML
70/ 7/30 950	**********	**********	**********	**********	1.00-	1.00-
70/ 7/31 1045	**********	**********	**********	**********	1.00-	1.00-
70/ 8/ 1 1020	**********	**********	**********	**********	1.00-	1.00-
70/ 8/ 2 1020	**********	**********	**********	**********	1.00-	1.00-
70/ 8/ 3 1525	16.30	70.00	**********	**********	1.00-	20.00
70/ 9/12 1000	**********	**********	**********	**********	-20.00	-19.00
70/ 8/12 1001	**********	**********	**********	**********	1.00-	1.00-
70/ 8/12 1200	**********	**********	**********	**********	-7.20	-5.30
70/ 8/12 1201	**********	**********	**********	**********	1.00-	1.00-
ARITHMETIC MEAN	16.30	70.00	0.00	0.00	-3.02	-2.70
STD. DEVIATION	0.0000	0.0000	0.0000	0.0000	**********	**********
NO. OF VALUES	1	1	0	3	9	9

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 571046.
BRIDGE BAY S.T.P.
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	10. WATER TEMP CENT	20. AIR TEMP CENT	3. VSAMPLOC DEPTH FEET	60. STREAM FLOW CUFT/SEC	300. DO MG/L	400. PH S U	403. LAB PH SU	99. CNDUCTVY AT 25C MICROMHO	70. TURB JKSN JU	410. T ALK CACO3 MG/L
70/ 8/13 1000	**********	**********	**********	**********	**********	**********	8.30	**********	60.00	**********
70/ 8/13 1001	**********	**********	**********	**********	**********	**********	7.80	**********	4.00	**********
ARITHMETIC MEAN	0.00	0.00	0.00	0.00	0.00	0.00	8.05	0.00	32.00	0.00
STD. DEVIATION	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.3535	0.0000	39.5979	0.0000
NO. OF VALUES	0	0	0	0	0	0	2	0	2	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 9710460
BRIDGE BAY S.T.P.
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	940. CHLORIDE CL MG/L	945. SULFATE SO4 MG/L	300. BOD 2 DAY MG/L	310. BOD 5 DAY MG/L	610. AMMONIA NH3-N MG/L	625. TOT KJEL N MG/L	630. NO2&NO3 N MG/L	665. PHOS-T P-WET MG/L	70507. PHOS-T ORTHO MG/L-P	915. CALCIUM CA-DISS MG/L
70/ 8/13 1000	**********	**********	**********	377.00	49.00	98.00	0.08	11.80	7.80	**********
70/ 8/13 1001	**********	**********	**********	64.00	48.00	72.00	0.83	9.20	7.80	**********
ARITHMETIC MEAN	0.00	0.00	0.00	220.50	56.50	85.00	0.35	10.50	7.80	0.00
STD. DEVIATION	0.0000	0.0000	0.0000	221.3241	16.2635	18.3847	0.3889	1.6834	0.0055	0.0000
NO. OF VALUES	0	0	0	2	2	2	2	2	2	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEMBACT. 11/16/70

STATION 5710400
BRIDGE BAY S.T.P.
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	959. SILICA SIO2 MG/L	680. T ORG C C MG/L	38260. MBAS MG/L	31501. COLIFORM IMEDIN3C MF/100ML	31616. FEC COLI MF-C44.5 KF AGR MF/100ML	31673. STPCOCCI KF AGR MF/100ML
70/ 8/13 1000	**********	**********	**********	**********	=2.80	=21.00
70/ 8/13 1001	**********	**********	**********	**********	840.00	8300.00
70/ 8/13 1200	**********	**********	**********	**********	=1.30	=4.10
ARITHMETIC MEAN	0.00	0.00	0.00	0.00	=1.36	=8.38
STD. DEVIATION	0.0000	0.0000	0.0000	0.0000	**********	**********
NO. OF VALUES	0	0	0	0	3	3

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA, 11/16/70

STATION 9710e7.
LOST CR BELOW ROOSEVELT LODGE
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	10. WATER TEMP CENT	20. AIR TEMP CENT	3. VSAMPLOC DEPTH FEET	60. STREAM FLOW CUFT/SEC	300. DO MG/L	400. PH S U	403. LAB PH SU	95. CNDUCTVY AT 25C MICROMHO	70. TURB JKSN JU	410. T ALK CACO3 MG/L
70/ 9/28 1040	4.00	14.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 7/22 1115	11.00	14.00	**********	**********	9.10	7.40	7.80	97.00	1.00	46.00
ARITHMETIC MEAN	7.50	14.00	0.00	0.00	9.10	7.40	7.80	97.00	1.00	46.00
STD. DEVIATION	4.9497	0.0078	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NO. OF VALUES	2	2	0	0	1	1	1	1	1	1

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 971047.
LOST CR BELOW ROOSEVELT LODGE
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	940. CHLORIDE CL MG/L	945. SULFATE SO4 MG/L	304. BOD 2 DAY MG/L	310. BOD 5 DAY MG/L	610. AMMONIA NH3-N MG/L	625. TOT KJEL N MG/L	630. NO2&NO3 N MG/L	665. PHOS-T P-WET MG/L	70507. PHOS-T ORTHO MG/L-P	915. CALCIUM CA,DISS MG/L
70/ 7/22 1115	0.70	8.80	*********	*********	0.03	0.01	0.20	0.03	0.02	9.10
ARITHMETIC MEAN	0.70	8.80	0.00	0.00	0.03	0.01	0.20	0.03	0.02	9.10
STD. DEVIATION	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NO. OF VALUES	1	1	0	0	1	1	1	1	1	1

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA, 11/16/70

STATION 471047,
LOST CR BELOW ROOSEVELT LODGE
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	930, SODIUM NA,DISS MG/L	935, PTSSIUM K,DISS MG/L	950, FLUORIDE F,DISS MG/L	1020, BORON B,DISS UG/L	1040, COPPER CU UG/L	1045, IRON TOTAL UG/L	1055, MANGNESE MN UG/L	1090, ZINC ZN,DISS UG/L	1145, SELENIUM SE,DISS UG/L	9501, RA-226 DISSOLVED PC/L
70/ 7/22 1115	6.90	1.70	0.40	**********	0.00+	0.00+	0.00+	0.00+	**********	**********
ARITHMETIC MEAN	6.90	1.70	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STD, DEVIATION	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NO, OF VALUES	1	1	1	0	1	1	1	1	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/18/70

STATION 9710A7.
LOST CR BELOW ROOSEVELT LODGE
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	925. MAGNESIUM MG.DISS MG/L	1005. BARIUM BA.DISS UG/L	1049. LEAD PB.DISS UG/L	720. CYANIDE CN UG/L	1000. ARSENIC AS.DISS UG/L	32730. PHENOLS	500. RESIDUE TOTAL MG/L	515. RESIDUE TOT FLT MG/L	22703. MERCURY DISSOLVED UG/L
70/ 7/22 1115	2.20	0.00.	0.00**********	**********	**********	**********	99.00	80.00	**********
ARITHMETIC MEAN	2.20	0.00	0.00	0.00	0.00	0.00	99.00	80.00	0.00
STD. DEVIATION	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NO. OF VALUES	1	1	1	0	0	0	1	1	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM-BACT, 11/16/70

STATION 5710470
LOST CR BELOW ROOSEVELT LODGE
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	955, SILICA SIO2 MG/L	680, T DEG C C	38260, MBAS MG/L	31501, COLIFORM IMEDENDO MF/100ML	31616, FEC COLI MF-C44.5 MF/100ML	31673, STPCOCCI KF AGR MF/100ML
70/ 5/28 1340	**********	**********	**********	40.00	10.00	**********
70/ 9/22 1119	31.00	18.00	**********	**********	**********	**********
ARITHMETIC MEAN	31.00	18.00	0.00	40.00	10.00	0.00
STD. DEVIATION	0.0000	0.7000	0.0000	0.0000	0.0000	0.0000
NO. OF VALUES	1	1	0	1	1	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA 11/10/79

STATION 9710.0
YELLOWSTONE L. NR STEVENSON IS.
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	10. WATER TEMP CENT	20. AIR TEMP CENT	3. VSAMPLOC DEPTH FEET	60. STREAM FLOW CUFT/SEC	300. DO MG/L	400. PH S U	403. LAB PH SU	99. CNDVSTVT AT 25C MICROMHO	70. TURB JKSN	410. T ALK CACO3 MG/L
79/ 8/ 6 1330	15.00 **********		1.00 **********		7.80 **********		7.80	93.00	0.00	28.00
79/ 8/ 6 1347	14.00 **********		30.00 **********		7.90 **********		7.80	93.00	1.90	30.00
79/ 8/ 6 1359	8.50 **********		100.00 **********		8.65 **********		7.80	100.00	2.40	30.00
79/ 8/ 6 1412	6.50 **********		110.00 **********		8.72 **********		7.40	93.00	0.30	28.00
ARITHMETIC MEAN	10.50	0.00	65.25	0.00	8.26	0.00	7.80	94.75	1.30	29.00
STD. DEVIATION	4.36368	0.0000	54.82352	**********	0.48765	**********	0.16330	3.30027	1.00099	1.15469
NO. OF VALUES	4	0	4	0	4	0	4	4	4	4

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE RATIONAL DATA SURVEY RETRIEVAL - CHEM DATA 11/18/70

STATION 9712000
YELLOWSTONE L+ NR STEVENSON IS
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	940 CHLORIDE CL MG/L	945 SULFATE SO4 MG/L	300 BOD 2 DAY MG/L	310 BOD 5 DAY MG/L	610 AMMONIA N-TOTAL MG/L	625 TOT KJEL N MG/L	630 NO2&NO3 N MG/L	665 PHOS-T P-WET MG/L	70507 PHOS-T ORTHO MG/L-P	915 CALCIUM CA-DISS MG/L
70/ 8/ 6 1000	0.00	0.30	**********	**********	0.00	0.11	0.02	0.03	0.02	**********
70/ 8/ 6 1300	0.00	0.30	**********	**********	0.01	0.02	0.00	0.03	0.02	**********
70/ 8/ 6 1359	0.00	0.00	**********	**********	0.00	0.13	0.02	0.03	0.03	**********
70/ 8/ 6 1400	0.00	0.20	**********	**********	0.00	0.02	0.00	0.03	0.02	**********
ARITHMETIC MEAN	0.00	0.15	0.00	0.00	0.00	0.08	0.01	0.03	0.02	0.00
STD. DEVIATION	0.0000	0.2046	0.0000	0.0000	0.0000	0.0697	0.0110	0.0000	0.0000	0.0000
NO. OF VALUES	4	4	0	0	4	4	4	4	4	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETHIEVAL - CHEM DATA. 11/16/70

STATION 471048.
YELLOWSTONE R. NR STEVENSON IS.
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	929. MGNSIUM MG.DISS MG/L	1009. BARIUM BA.DISS UG/L	1049. LEAD PB.DISS UG/L	720. CYANIDE CN MG/L	1000. ARSENIC AS.DISS UG/L	32730. PHENOLS UG/L	500. RESIDUE TOTAL MG/L	515. RESIDUE TOT FLT MG/L	22703. U-NAT DISOLVED UG/L
70/ 8/ 4 1330	**********	**********	**********	**********	**********	4.00	94.00	44.00	**********
70/ 8/ 4 1340	**********	**********	**********	**********	**********	**********	83.00	41.00	**********
70/ 8/ 4 1355	**********	**********	**********	**********	**********	**********	105.00	61.00	**********
70/ 8/ 4 1400	**********	**********	**********	**********	**********	**********	79.00	60.00	**********
ARITHMETIC MEAN	0.00	0.00	0.00	0.00	0.00	4.00	84.50	51.50	0.00
STD. DEVIATION	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	10.6638	10.4722	0.0000
NO. OF VALUES	0	0	0	0	0	1	4	4	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM-BACT. 11/10/70

STATION 571040.
YELLOWSTONE R. NR STEVENSON IS.
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	959. SILICA $102 MG/L	T	680. ORG C C MG/L	38260. MBAS MG/L	31501. COLIFORM IMEDENDO MF/100ML	31616. FEC COLI MF-C44.5 MF/100ML	31673. STPCOCCI KF AGR MF/100ML
70/ 8/ 4 1330	9.00		8.00	**********	**********	**********	**********
70/ 8/ 4 1340	9.00		9.00	**********	**********	**********	**********
70/ 8/ 4 1355	10.00		**********	**********	**********	**********	**********
70/ 8/ 4 1400	10.00		8.00	**********	**********	**********	**********
ARITHMETIC MEAN	9.50		8.33	0.00	0.00	0.00	0.00
STD. DEVIATION	0.5774		0.5774	0.0000	0.0000	0.0000	0.0000
NO. OF VALUES	4		3	0	0	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA, 11/10/70

STATION 9710.9.
GARD. R AT MAMMOTH AREA INCEN.
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	10. WATER TEMP CENT	20. AIR TEMP CENT	3. YEAMPLOC DEPTH FEET	60. STREAM FLOW CUFT/SEC	300. DO MG/L	400. PH S U	403. LAB PH SU	95. CNDUCTVY AT 25C MICROMHO	70. TURB JKSN JU	410. T ALK CACO3 MG/L
70/ 9/28 1130	6.00	17.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 8/11 1140	19.00	29.00	**********	**********	**********	**********	7.80	**********	**********	**********
ARITHMETIC MEAN	12.50	21.00	0.00	0.00	0.00	0.00	7.80	0.00	0.00	0.00
STD. DEVIATION	6.3639	5.6568	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NO. OF VALUES	2	2	0	0	0	0	1	0	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM-BACT. 11/10/70

STATION 471049.
GARD. R AT MAMMOTH AREA INCEN.
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	955. SILICA $102 MG/L	680. T ORG C C MG/L	38260. MBAS MG/L	31501. COLIFORM IMEDENDO MF/100ML	31616. FEC COLI MF-C44.5 MF/100ML	31673. STPCOCCI KF AGR MF/100ML
70/ 5/28 1130	**********	**********	**********	11.00	10.00	**********
70/ 8/11 1145	**********	**********	**********	**********	2.00	102.00
ARITHMETIC MEAN	0.00	0.00	0.00	11.00	6.00	102.00
STD. DEVIATION	0.0000	0.0000	0.0000	0.0000	5.6568	0.0000
NO. OF VALUES	0	0	0	1	2	1

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 971050.
GARDINER R. ABOVE MAMMOTH
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	10. WATER TEMP CENT	20. AIR TEMP CENT	3. VSAMPLOC DEPTH FEET	60. STREAM FLO. CUFT/SEC	300. DO MG/L	400. PH S U	403. LAB PH SU	95. CNDUCTVY AT 25C MICROMHO	70. TURB JKSN JU	410. T ALK CACO3 MG/L
70/ 5/28 1105	5.00	16.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 8/11 1210	14.00	29.00	**********	**********	**********	**********	7.80	**********	**********	**********
ARITHMETIC MEAN	9.50	22.50	0.00	0.00	0.00	0.00	7.80	0.00	0.00	0.00
STD. DEVIATION	6.3639	9.1923	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NO. OF VALUES	2	2	0	0	0	0	1	0	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM-BACT. 11/16/70

STATION 971030.
GARDINER Ha ABOVE MAMMOTH
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	955. SILICA $102 MG/L	680. T ORG C C MG/L	38260. MBAS MG/L	31501. COLIFORM IMEDENDO MF/100ML	31616. FEC COLI MF-C444.5 MF/100ML	31673. STPCOCCI KF AGR MF/100ML
70/ 5/28 1105	**********	**********	**********	40.00	23.00	**********
70/ 8/11 1210	**********	**********	**********	**********	1.00-	100.00
ARITHMETIC MEAN	0.00	0.00	0.00	40.00	12.00	100.00
STD. DEVIATION	0.0000	0.0000	0.0000	0.0000	15.5563	0.0000
NO. OF VALUES	0	0	0	1	2	1

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 971091.
SERVICE RD 1.2 MI S OF FISH. BR.
MISSOURI RIVER
YELLOWSTONE River

DATE TIME	10. WATER TEMP CENT	20. AIR TEMP CENT	3. VSAMPLOC DEPTH FEET	60. STREAM FLOW CUFT/SEC	300. DO MG/L	400. PH S U	403. LAB PH SU	99. CNDUCTVY AT 25C MICROMHO	70. TURB JKSN JU	410. T ALK CACO3 MG/L
70/ 5/26 940	1.00	7.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 8/10 820	14.00	10.50	**********	**********	**********	**********	**********	**********	**********	**********
ARITHMETIC MEAN	7.50	8.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STD. DEVIATION	9.1923	2.4748	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NO. OF VALUES	2	2	0	0	0	0	0	0	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM-BACT. 11/16/70

STATION 671051.
SERVICE RD 1.2 MI S OF FISH. BR.
MISSOURI RIVER
YELLOWSTONE RIVER

DATE	TIME	955. SILICA $SIO2 MG/L	680. T ORG C MG/L	38260. MBAS MG/L	31501. COLIFORM IMEDENDO MF/100ML	31616. FEC COLI MF-C444.5 MF/100ML	31673. STREPTOCCI KF AGR MF/100ML
70/ 5/26	940	**********	**********	**********	10.00	1.00-**********	
70/ 8/10	820	**********	**********	**********	**********	1.00-	3.00
ARITHMETIC MEAN		0.00	0.00	0.00	10.00	1.00	3.00
STD. DEVIATION		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NO. OF VALUES		0	0	0	1	2	1

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 571092.
YELLOWSTONE L. S OF FISH. BR.
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	10. WATER TEMP CENT	20. AIR TEMP CENT	3. VSAMPLOC DEPTH FEET	60. STREAM FLOW CUFT/SEC	300. DO MG/L	400. PH S U	403. LAB PH SU	95. CNDUCTVY AT 25C MICROMHO	70. TURB JKSN JU	410. T ALK CACO3 MG/L
70/ 5/26 955	2.00	7.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 8/10 835	14.00	13.00	**********	**********	**********	**********	**********	**********	**********	**********
ARITHMETIC MEAN	8.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STD. DEVIATION	8.4852	4.2426	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NO. OF VALUES	2	2	0	0	0	0	0	0	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM-BACT. 11/18/70

STATION 571032.
YELLOWSTONE L. S OF FISH. BR.
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	955. SILICA SIO2 MG/L	680. T ORG C C MG/L	38260. MBAS MG/L	31501. COLIFORM IMEDENDO MF/100ML	31616. FEC COLI MF-C++.2 MF/100ML	31673. ST-COCCI <> 4UM MF/100ML
70/ 8/10 835	**********	******700	**********	**********	1.00-	6.00
ARITHMETIC MEAN	0.00	0.00	0.00	0.00	1.00	6.00
STD. DEVIATION	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NO. OF VALUES	0	0	0	0	1	1

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/78

STATION 571053.
YELLOWSTONE L. E. OF FISH. BR.
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	10. WATER TEMP CENT	20. AIR TEMP CENT	3. VSAMPLOC DEPTH FEET	40. STREAM FLOW CUFT/SEC	300. DO MG/L	400. PH S U	403. LAB PH SU	95. CNDUCTVY AT 25C MICROMHO	70. TURB JKSM JU	410. T ALK CACO3 MG/L
78/ 5/26 900	1.50	6.00	**********	**********	**********	**********	**********	**********	**********	**********
78/ 6/10 1145	20.00	14.50	**********	**********	**********	**********	**********	**********	**********	**********
78/ 6/15 1300	18.00	18.00	**********	**********	**********	**********	7.80	**********	**********	**********
ARITHMETIC MEAN	13.16	12.83	0.00	0.00	0.00	0.00	7.80	0.00	0.00	0.00
STD. DEVIATION	10.1529	6.1711	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NO. OF VALUES	3	3	0	0	0	0	1	0	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 11/16/70

STATION 9710550.
YELLOWSTONE L. E. OF FISH. 88.
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	940. CHLORIDE CL MG/L	945. SULFATE SO4 MG/L	310. BOD 2 DAY MG/L	310. BOD 5 DAY MG/L	610. AMMONIA NH3-N MG/L	625. TOT KJEL N MG/L	630. NO2&NO3 N MG/L	665. PHOS-T P=ET MG/L	70507. PHOS-T ORTHO MG/L-P	915. CALCIUM CA,DISS MG/L
70/ 8/10 1145	**********	**********	7.60	**********	**********	**********	**********	**********	**********	**********
ARITHMETIC MEAN	0.00	0.00	7.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STD. DEVIATION	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NO. OF VALUES	0	0	1	0	0	0	0	0	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM-BACT. 11/16/70

STATION 571093.
YELLOWSTONE L. E. OF FISH. BR.
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	955. SILICA SIO2 MG/L	680. T ORG C C MG/L	38260. MBAS MG/L	31501. COLIFORM IMEDENDO MF/100ML	31616. FEC COLI MF-C44.5 MF/100ML	31673. STPCOCCI KF AGR MF/100ML
70/ 5/26 900	**********	**********	**********	180.00	1.00-**********	
70/ 8/10 1145	**********	**********	**********	**********	1.00-	28.00
ARITHMETIC MEAN	0.00	0.00	0.00	180.00	1.00	28.00
STD. DEVIATION	0.0000	0.0000	0.0000	0.0000	0.0006	0.0000
NO. OF VALUES	0	0	0	1	2	1

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 5710540
YELLOWSTONE L. S. OF FISH. BR.
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	10. WATER TEMP CENT	20. AIR TEMP CENT	3. VSAMPLOC DEPTH FEET	60. STREAM FLOW CUFT/SEC	300. DO MG/L	400. PH S U	403. LAB PH SU	95. CNDUCTVY AT 25C MICROMHO	70. TURB JKSN JU	410. T ALK CACO3 MG/L
70/ 5/26 1015	2.00	7.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 8/10 905	13.50	11.00	**********	**********	**********	**********	**********	**********	**********	**********
ARITHMETIC MEAN	7.75	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STD. DEVIATION	8.1317	2.8284	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NO. OF VALUES	2	2	0	0	0	0	0	0	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM-BACT. 11/16/70

STATION 5710540.
YELLOWSTONE Le Se OF FISH. BR.
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	955. SILICA SIO2 MG/L	680. T ORG C MG/L	38260. HBAS MG/L	31501. COLIFORM (MEDENDO MF/100ML	31616. FEC COLI MF-C44.5 MF/100ML	31673. STPCOCCI <F AGR MF/100ML
70/ 5/26 1015	**********	**********	**********	1.00-	1.00-**********	
70/ 8/10 905	**********	**********	**********	**********	1.00-	28.00
ARITHMETIC MEAN	0.00	0.00	0.00	1.00	1.00	28.00
STD. DEVIATION	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NO. OF VALUES	0	0	0	1	2	1

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 571055.
YELLOWSTONE L. S. OF FISH. BR.
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	10. WATER TEMP CENT	20. AIR TEMP CENT	3. VSAMPLOC DEPTH FEET	60. STREAM FLOW CUFT/SEC	300. DO MG/L	400. PH S U	403. LAB PH SU	95. CNDUCTVY AT 25C MICROMHO	70. TURB JKSN JU	410. T ALK CACO3 MG/L
70/ 9/26 1045	2.50	11.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 8/10 940	15.00	11.00	**********	**********	**********	**********	**********	**********	**********	**********
ARITHMETIC MEAN	8.75	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STD. DEVIATION	8.8388	0.0078	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NO. OF VALUES	2	2	0	0	0	0	0	0	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM-BACT. 11/16/70

STATION 571055.
YELLOWSTONE L. S. OF FISH. BR.
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	955. SILICA SIO2 MG/L	680. T ORG C C MG/L	38260. MBAS MG/L	31501. COLIFORM IMEDENDO MF/100ML	31616. FEC COLI MF-C44.5 MF/100ML	31673. STPCOCCI KF AGR MF/100ML
70/ 5/26 1045	**********	**********	**********	1.00-	1.00-	**********
70/ 8/10 940	**********	**********	**********	**********	1.00-	2.00
ARITHMETIC MEAN	0.00	0.00	0.00	1.00	1.00	2.00
STD. DEVIATION	0.0000	0.0000	0.0000	0.0000	0.0006	0.0000
NO. OF VALUES	0	0	0	1	2	1

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 571096.
YELLOWSTONE L. E OF FISH. BR.
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	10. WATER TEMP CENT	20. AIR TEMP CENT	3. VSAMPLOC DEPTH FEET	60. STREAM FLOW CUFT/SEC	300. DO MG/L	400. PH S U	403. LAB PH SU	95. CNDUCTVY AT 25C MICROMHO	70. TURB JKSN JU	410. T ALK CACO3 MG/L
70/ 5/26 920	1.50	9.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 8/10 1100	18.00	14.00	**********	**********	**********	**********	7.40	**********	**********	**********
70/ 8/15 925	17.00	13.00	**********	**********	**********	**********	7.40	**********	**********	**********
ARITHMETIC MEAN	12.16	12.00	0.00	0.00	0.00	0.00	7.40	0.00	0.00	0.00
STD. DEVIATION	9.2511	2.6457	0.0000	0.0000	0.0000	0.0000	0.0055	0.0000	0.0000	0.0000
NO. OF VALUES	3	3	0	0	0	0	2	0	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEMPACT, 11/10/70

STATION 471096
YELLOWSTONE R. E OF FISH. BR.
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	955, SILICA SIO2 MG/L	680, T ORG C MG/L	38260, MBAS MG/L	31501, COLIFORM IMMEDIATE MF-ENDO MP/100ML	31616, FEC COLI MF-EC+9 MF/100ML	31673, STPCOCCI KF AGR MF/100ML
70/ 5/26 925	**********	**********	**********	10.00	1.00-	**********
70/ 8/10 925	**********	**********	**********	**********	1.00-	1.00-
70/ 8/10 1100	**********	**********	**********	**********	1.00-	13.00
ARITHMETIC MEAN	0.00	0.00	0.00	10.00	1.00	7.00
STD. DEVIATION	0.0000	0.0000	0.000	0.0000	0.0000	8.4852
NO. OF VALUES	0	0	0	1	3	2

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 971097.
MADISON R. W. OF MADISON JCT.
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	10. WATER TEMP CENT	20. AIR TEMP CENT	3. VSAMPLOC DEPTH FEET	60. STREAM FLOW CUFT/SEC	300. DO MG/L	400. PH S U	403. LAB PH SU	95. CNDUCTVY AT 25C MICROMHO	70. TURB JKSN JU	410. T ALK CACO3 MG/L
70/ 5/27 1015	9.00	12.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 8/12 945	17.00	16.00	**********	**********	**********	**********		**********	**********	**********
70/ 8/19 1105	16.00	20.00	**********	**********	**********	**********	7.60	**********	**********	**********
							7.70	**********	**********	**********
ARITHMETIC MEAN	14.00	16.00	0.00	0.00	0.00	0.00	7.65	0.00	0.00	0.00
STD. DEVIATION	4.3589	4.0000	0.0000	0.0000	0.0000	0.0000	0.0709	0.0000	0.0000	0.0000
NO. OF VALUES	3	3	0	0	0	0	2	0	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 571097.
MADISON R. W. OF MADISON JCT.
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	940. CHLORIDE CL MG/L	945. SULFATE SO4 MG/L	304. BOD 2 DAY MG/L	310. BOD 5 DAY MG/L	610. AMMONIA NH3-N MG/L	625. TOT KJEL N MG/L	630. NO2&NO3 N MG/L	665. PHOS-T P-WET MG/L	70507. PHOS-T ORTHO MG/L-P	915. CALCIUM CA,DISS MG/L
70/ 8/12 945	**********	**********	0.30	0.80	**********	**********	**********	**********	**********	**********
ARITHMETIC MEAN	0.00	0.00	0.30	0.80	0.00	0.00	0.00	0.00	0.00	0.00
STD. DEVIATION	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NO. OF VALUES	0	0	1	1	0	0	0	0	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM-BACT. 11/16/70

STATION 571097.
MADISON R. bl. OF MADISON JCT.
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	955. SILICA SIO2 MG/L	680. T ORG C C MG/L	38260. MBAS MG/L	31501. COLIFORM IMEDENDO MF/100ML	31616. FEC COLI MF-C44.5 MF/100ML	31673. STPCOCCI KF AGR MF/100ML
70/ 5/27 1005	*********	*********	*********	380.00	320.00	*********
70/ 8/12 945	*********	*********	*********	*********	8.00	63.00
70/ 8/15 1105	*********	*********	*********	*********	18.00	43.00
ARITHMETIC MEAN	0.00	0.00	0.00	380.00	115.33	53.66
STD. DEVIATION	0.0000	0.0000	0.0000	0.0000	177.3168	14.1421
NO. OF VALUES	0	0	0	1	3	2

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 571058.
GIBBON AT UPPER END OF ELK PARK
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	10. WATER TEMP CENT	20. AIR TEMP CENT	3. VSAMPLOC DEPTH FEET	60. STREAM FLOW CUFT/SEC	300. DO MG/L	400. PH S U	403. LAB PH SU	95. CNDUCTVY AT 25C MICROMHO	70. TURB JKSN JU	410. T ALK CACO3 MG/L
70/ 5/29 840	5.00	7.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 8/ 9 955	16.00	22.00	**********	**********	**********	**********	7.20	**********	**********	**********
70/ 8/15 1210	15.00	20.00	**********	**********	**********	**********	7.00	**********	**********	**********
ARITHMETIC MEAN	12.00	16.33	0.00	0.00	0.00	0.00	7.10	0.00	0.00	0.00
STD. DEVIATION	6.0827	8.1445	0.0000	0.0000	0.0000	0.0000	0.1415	0.0000	0.0000	0.0000
NO. OF VALUES	3	3	0	0	0	0	2	0	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 11/16/70

STATION 571058.
GIBBON AT UPPER END OF ELK PARK
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	940. CHLORIDE CL MG/L	945. SULFATE SO4 MG/L	304. BOD 2 DAY MG/L	310. BOD 5 DAY MG/L	610. AMMONIA NH3-N MG/L	625. TOT KJEL N MG/L	630. NO2&NO3 N MG/L	665. PHOS-T P-WET MG/L	70307. PHOS-T ORTHO MG/L-P	915. CALCIUM CA,DISS MG/L
70/ 8/ 9 955	*********	*********	0.40	1.00	*********	*********	*********	*********	*********	*********
ARITHMETIC MEAN	0.00	0.00	0.40	1.00	0.00	0.00	0.00	0.00	0.00	0.00
STD. DEVIATION	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NO. OF VALUES	0	0	1	1	0	0	0	0	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHLM=BACT. 11/16/70

STATION 971098.
GIBBON AT UPPER END OF ELK PARK
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	955. SILICA SIO2 MG/L	680. T ORG C C MG/L	38260. MBAS MG/L	31901. COLIFORM IMEDENDO MF/100ML	31616. FEC COLI MF-C44.5 MF/100ML	31673. STPCOCCI KF AGR MF/100ML
70/ 9/29 940	**********	**********	**********	89.00	10.00	**********
ARITHMETIC MEAN	0.00	0.00	0.00	89.00	10.00	0.00
STD. DEVIATION	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NO. OF VALUES	0	0	0	1	1	3

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/10/70

STATION 9T1099.
GIBBON R UPSTR FRM NORRIS CAMP.
MISSOURI RIVER
YELLOWSTONE RIVER

DATE	TIME	10. WATER TEMP CENT	20. AIR TEMP CENT	3. VSAMPLOC DEPTH FEET	60. STREAM FLOW CUFT/SEC	300. DO MG/L	400. PH S U	403. LAB PH SU	95. CNDUCTVY AT 25C MICROMHO	70. TURB JKSN JU	410. T ALK CACO3 MG/L
70/ 5/27	0	**********	**********	**********	121.00	**********	**********	**********	**********	**********	**********
70/ 5/29	920	4.00	12.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 6/ 4	0	**********	**********	**********	32.30	**********	**********	**********	**********	**********	**********
70/ 8/ 9	900	11.00	11.00	**********	**********	**********	**********	7.20	**********	**********	**********
70/ 8/15	1235	19.00	20.00	**********	**********	**********	**********	7.30	**********	**********	**********
70/ 8/16	955	10.50	17.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 8/17	755	12.00	10.00	**********	**********	**********	**********	7.20	**********	**********	36.00
70/ 8/18	1040	11.50	18.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 8/19	1040	10.50	17.00	**********	27.80	**********	**********	**********	**********	**********	**********
ARITHMETIC MEAN		10.64	15.00	0.00	60.36	0.00	0.00	7.23	0.00	0.00	36.00
STD. DEVIATION		3.3130	3.9157	0.0000	52.5581	0.0000	0.0000	0.0379	0.0000	0.0000	0.0000
NO. OF VALUES		7	7	0	3	0	0	3	0	0	1

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 571059.
GIBBON R UPSTM FRM NORRIS CAMP.
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	940. CHLORIDE CL MG/L	945. SULFATE SO4 MG/L	304. BOD 2 DAY MG/L	310. BOD 5 DAY MG/L	610. AMMONIA NH3-N MG/L	625. TOT KJEL N MG/L	630. NO2&NO3 N MG/L	665. PHOS-T P-WET MG/L	70507. PHOS-T ORTHO MG/L-P	915. CALCIUM CA.DISS MG/L
70/ 8/ 9 905	*********	*********	1.50	2.50	*********	*********	*********	*********	*********	*********
ARITHMETIC MEAN	0.00	0.00	1.50	2.50	0.00	0.00	0.00	0.00	0.00	0.00
STD. DEVIATION	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NO. OF VALUES	0	0	1	1	0	0	0	0	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM-BACT. 11/16/70

STATION 571059.
GIBBON R UPSTM FRM NORRIS CAMP.
MISSOURI RIVER
YELLOWSTONE RIVER

DATE	TIME	955. SILICA SIO2 MG/L	680. T ORG C C MG/L	38260. MBAS MG/L	31501. COLIFORM IMEDENDO MF/100ML	31616. FEC COLI MF-C44.5 MF/100ML	31673. STPCOCCI KF AGR VF/100ML
70/ 5/29	920	**********	**********	**********	23.00	8.00	**********
70/ 8/ 9	905	**********	**********	**********	**********	28.00	51.00
70/ 8/15	1235	**********	**********	**********	**********	2.00	14.00
70/ 8/16	955	**********	**********	**********	**********	6.00	54.00
70/ 8/17	755	**********	**********	**********	**********	8.00	84.00
70/ 8/18	1040	**********	**********	**********	**********	5.00	92.00
70/ 8/19	1040	**********	**********	**********	**********	13.00	58.00
ARITHMETIC MEAN		0.00	0.00	0.00	23.00	10.00	52.16
STD. DEVIATION		0.0000	0.0000	0.0000	0.0000	8.6216	22.4001
NO. OF VALUES		0	0	0	1	7	6

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 11/16/70

STATION 571060.
FIREHOLE R AT BRIDGE
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	10. WATER TEMP CENT	20. AIR TEMP CENT	3. VSAMPLOC DEPTH FEET	60. STREAM FLOW CUFT/SEC	300. DO MG/L	400. PH S U	403. LAB PH SU	95. CNDUCTVY AT 25C MICROMHO	70. TURB JKSN JU	410. T ALK CACO3 MG/L
70/ 5/27 925	9.50	11.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 8/12 1045	17.00	20.00	**********	**********	**********	**********	8.00	**********	**********	**********
ARITHMETIC MEAN	11.25	15.50	0.00	0.00	0.00	0.00	8.00	0.00	0.00	0.00
STD. DEVIATION	8.1317	6.3639	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NO. OF VALUES	2	2	0	0	0	0	1	0	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 11/18/70

STATION 571060
FIREHOLE R AT BRIDGE
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	940 CHLORIDE CL MG/L	945 SULFATE SO4 MG/L	304 BOD 2 DAY MG/L	310 BOD 5 DAY MG/L	610 AMMONIA NH3-N MG/L	625 TOT KJEL N MG/L	630 NO2&NO3 N MG/L	665 PHOS-T P-WET MG/L	70507 PHOS-T ORTHO MG/L-P	915 CALCIUM CA,DISS MG/L
70/ 8/12 1045	**********	**********	0.50	0.60	**********	**********	**********	**********	**********	**********
ARITHMETIC MEAN	0.00	0.00	0.50	0.60	0.00	0.00	0.00	0.00	0.00	0.00
STD. DEVIATION	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NO. OF VALUES	0	0	1	1	0	0	0	0	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM-BACT. 11/16/70

STATION 571060.
FIREHOLE R AT BRIDGE
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	955. SILICA $102 MG/L	680. T ORG C C MG/L	38260. MBAS MG/L	31501. COLIFORM IMEDENDO MF/100ML	31616. FEC COLI MF-C44.5 MF/100ML	31673. STPCOCCI KF AGR KF/100ML
70/ 8/12 1345	*********	*********	*********	*********	26.00	12.00
ARITHMETIC MEAN	0.00	0.00	0.00	0.00	26.00	12.00
STD. DEVIATION	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NO. OF VALUES	0	0	0	0	1	1

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 671061.
FIREHOLE RIVER AT SERVICE ROAD
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	10. WATER TEMP CENT	20. AIR TEMP CENT	3. VSAMPLOC DEPTH FEET	60. STREAM FLOW CUFT/SEC	300. DO MG/L	400. PH S U	403. LAB PH SU	95. CNDUCTVY AT 25C MICROMHO	70. TURB JKSN JU	410. T ALK CACO3 MG/L
70/ 5/27 825	3.00	7.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 8/12 1315	14.00	22.00	**********	**********	**********	**********	7.40	**********	**********	**********
ARITHMETIC MEAN	8.50	14.50	0.00	0.00	0.00	0.00	7.40	0.00	0.00	0.00
STD. DEVIATION	7.7781	10.6066	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NO. OF VALUES	2	2	0	0	0	0	1	0	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 9710415
FIREHOLE RIVER AT SERVICE ROAD
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	940. CHLORIDE CL MG/L	945. SULFATE SO4 MG/L	304. BOD 2 DAY MG/L	310. BOD 5 DAY MG/L	610. AMMONIA NH3-N MG/L	625. TOT KJEL N MG/L	630. NO2&NO3 N MG/L	665. PHOS-T P-ET MG/L	70507. PHOS-T ORTHO MG/L-P	915. CALCIUM CA,DISS MG/L
70/ 8/12 1315	*********	*********	0.50	0.70	*********	*********	*********	*********	*********	*********
ARITHMETIC MEAN	0.00	0.00	0.50	0.70	0.00	0.00	0.00	0.00	0.00	0.00
STD. DEVIATION	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NO. OF VALUES	0	0	1	1	0	0	0	0	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM-BACT. 11/16/70

STATION 571061.
FIREHOLE RIVER AT SERVICE ROAD
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	955. SILICA $102 MG/L	680. T ORG C C MG/L	38260. MBAS MG/L	31501. COLIFORM IMEDENDO MF/100ML	31616. FEC COLI MF-C44.5 MF/100ML	31673. STPCOCCI KF AGR MF/100ML
70/ 5/27 825	*********	*********	*********	130.00	73.00	*********
70/ 8/12 1315	*********	*********	*********	*********	7.00	9.00
ARITHMETIC MEAN	0.00	0.00	0.00	130.00	40.00	8.00
STD. DEVIATION	0.0000	0.0000	0.0000	0.0000	46.6689	0.0000
NO. OF VALUES	0	0	0	1	2	1

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 11/16/70

STATION 571062.
IRON SPR. CR BLW OLD PATH LAGOON
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	10. WATER TEMP CENT	20. AIR TEMP CENT	3. VSAMPLOC DEPTH FEET	60. STREAM FLOW CUFT/SEC	300. DO MG/L	400. PH S U	403. LAB PH SU	95. CNDUCTVY AT 25C MICROMHO	70. TURB JKSN JU	410. T ALK CACO3 MG/L
70/ 5/27 920	9.00	9.00	*********	*********	*********	*********	*********	*********	*********	*********
70/ 8/12 1115	15.00	30.00	*********	*********	*********	*********	7.50	*********	*********	*********
ARITHMETIC MEAN	12.00	19.50	0.00	0.00	0.00	0.00	7.50	0.00	0.00	0.00
STD. DEVIATION	4.2426	14.8492	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NO. OF VALUES	2	2	0	0	0	0	1	0	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA, 11/16/70

STATION 571062,
IRON SPR, CR BLW OLD PATH LAGOON
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	940, CHLORIDE CL MG/L	945, SULFATE SO4 MG/L	304, BOD 2 DAY MG/L	310, BOD 5 DAY MG/L	610, AMMONIA NH3-N MG/L	625, TOT KJEL N MG/L	630, NO2&NO3 N MG/L	665, PHOS-T P-HET MG/L	70507, PHOS-T ORTHO MG/L-P	915, CALCIUM CA,DISS MG/L
70/ 8/12 1115	**********	**********	0.40	0.80	**********	**********	**********	**********	**********	**********
ARITHMETIC MEAN	0.00	0.00	0.40	0.80	0.00	0.00	0.00	0.00	0.00	0.00
STD, DEVIATION	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NO, OF VALUES	0	0	1	1	0	0	0	0	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM-BACT. 11/16/70

STATION 571062.
IRON SPR. CR BLW OLD FATH LAGOON
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	955. SILICA SIO2 MG/L	680. T ORG C C MG/L	38260. MBAS MG/L	31501. COLIFORM IMEDENDO MF/100ML	31616. FEC COLI MF-C44.5 MF/100ML	31673. STPCOCCI KF AGR MF/100ML
70/ 5/27 920	**********	**********	**********	170.00	170.00	**********
70/ 8/12 1115	**********	**********	**********	**********	9.00	44.00
ARITHMETIC MEAN	0.00	0.00	0.00	170.00	89.50	44.00
STD. DEVIATION	0.0000	0.0000	0.0000	0.0000	113.8440	0.0000
NO. OF VALUES	0	0	0	1	2	1

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA, 11/16/70

STATION 871869.
IRON SP CR ABOVE OLD FAITH LAGN
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	10. WATER TEMP CENT	20. AIR TEMP CENT	3. VSAMPLOC DEPTH FEET	60. STREAM FLOW CUFT/SEC	300. DO MG/L	400. PH S U	403. LAB PH SU	95. CNDUCTVY AT 25C MICROMHO	70. TURB JKSN JU	410. T ALK CACO3 MG/L
70/ 5/27 900	6.00	9.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 6/12 1140	20.00	24.00	**********	**********	**********	**********	7.50	**********	**********	**********
ARITHMETIC MEAN	13.00	16.50	0.00	0.00	0.00	0.00	7.50	0.00	0.00	0.00
STD. DEVIATION	9.8994	10.6066	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NO. OF VALUES	2	2	0	0	0	0	1	0	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 12/16/70

STATION 971063.
IRON SP CR ABOVE OLD FAITH LAGN
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	940. CHLORIDE CL MG/L	945. SULFATE SO4 MG/L	304. BOD 2 DAY MG/L	310. BOD 5 DAY MG/L	610. AMMONIA NH3-N MG/L	625. TOT KJEL N MG/L	630. NO2&NO3 N MG/L	665. PHOS-T P-WET MG/L	70507. PHOS-T ORTHO MG/L-P	915. CALCIUM CA,DISS MG/L
70/ 6/12 1140	**********	**********	0.40	0.60	**********	**********	**********	**********	**********	**********
ARITHMETIC MEAN	0.00	0.00	0.40	0.60	0.00	0.00	0.00	0.00	0.00	0.00
STD. DEVIATION	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NO. OF VALUES	0	0	1	1	0	0	0	0	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM-BACT. 11/16/70

STATION 971069.
14QM BP CR ABOVE OLD FAITH LAGR
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	959. SILICA SIO2 MG/L	680. T ORG C C MG/L	80260. MBAS MG/L	31501. COLIFORM IMEDEMDO MF-C44.5 MF/100ML	31616. FEC COLI MF/100ML	31673. STPCWCCI EF AGR MF/100ML
70/ 5/27 900	**********	**********	**********	40.00	49.00	**********
70/ 8/12 1140	**********	**********	**********	**********	2.00	33.00
ARITHMETIC MEAN	0.00	0.00	0.00	40.00	25.50	33.00
STD. DEVIATION	0.0000	0.0000	0.0000	0.0000	33.0459	0.0000
NO. OF VALUES	0	0	0	1	2	1

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 11/16/70

STATION 571066.
CANYON VILLAGE STP INF. AND EFF.
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	940. CHLORIDE CL MG/L	945. SULFATE SO4 MG/L	304. BOD 2 DAY MG/L	310. BOD 5 DAY MG/L	610. AMMONIA NH3-N MG/L	625. TOT KJEL N MG/L	630. NO2&NO3 N MG/L	665. PHOS-T P-WET MG/L	70507. PHOS-T ORTHO MG/L-P	915. CALCIUM CA,DISS MG/L
70/ 8/16 800	**********	**********	**********	155.00	**********	**********	**********	**********	**********	**********
70/ 8/16 801	**********	**********	**********	92.00	**********	**********	**********	**********	**********	**********
ARITHMETIC MEAN	0.00	0.00	0.00	123.50	0.00	0.00	0.00	0.00	0.00	0.00
STD. DEVIATION	0.0000	0.0000	0.0000	44.5476	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NO. OF VALUES	0	0	0	2	0	0	0	0	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM-BACT. 11/16/70

STATION 5710640
CANYON VILLAGE STP INF. AND EFF.
MISSOURI RIVER
YELLOWSTONE RIVER

DATE TIME	955. SILICA SIO2 MG/L	680. T ORG C C MG/L	38260. MBAS MG/L	31501. COLIFORM IMEDENDO MF/100ML	31616. FEC COLI MF-C44.5 MF/100ML	31673. STPCOCCI KF AGR MF/100ML
70/ 8/16 830	**********	**********	**********	**********	-2.50	-2.30
70/ 8/16 801	**********	**********	**********	**********	1.00-	1.00-
ARITHMETIC MEAN	0.00	0.00	0.00	0.00	-1.25	-1.15
STD. DEVIATION	0.0000	0.0000	0.0000	0.0000	**********	**********
NO. OF VALUES	0	0	0	0	2	2

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA, 11/16/70

STATION 5719922
HEART LAKE OUTLET
PACIFIC NORTHWEST
COLUMBIA

DATE TIME	10, WATER TEMP CENT	20, AIR TEMP CENT	3, VSAMPLOC DEPTH FEET	60, STREAM FLOW CUFT/SEC	300, DO MG/L	400, PH S U	403, LAB PH SU	99, CNDUCTVY AT 25C MICROMHO	70, TURB JKSN JU	410, T ALK CACO3 MG/L
70/ 6/ 8 930	**********	**********	**********	**********	**********	**********	7.40	193.00	**********	30.00
ARITHMETIC MEAN	0.00	0.00	0.00	0.00	0.00	0.00	7.40	193.00	0.00	30.00
STD. DEVIATION	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NO. OF VALUES	0	0	0	0	0	0	1	1	0	1

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA, 11/16/70

STATION 471992
HEART LAKE OUTLET
PACIFIC NORTHWEST
COLUMBIA

DATE TIME	940 CHLORIDE CL MG/L	945 SULFATE SO4 MG/L	304 BOD 2 DAY MG/L	310 BOD 5 DAY MG/L	610 AMMONIA NH3-N MG/L	625 TOT KJEL N MG/L	630 NO2&NO3 N MG/L	665 PHOS-T P-WET MG/L	70307 PHOS-T ORTHO MG/L-P	915 CALCIUM CA,DISS MG/L
70/ 6/ 8 930	*********	*********	*********	*********	0.01	0.04	0.02	0.07	0.03	2.90
ARITHMETIC MEAN	0.00	0.00	0.00	0.00	0.01	0.04	0.02	0.07	0.03	2.90
STD. DEVIATION	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NO. OF VALUES	0	0	0	0	1	1	1	1	1	1

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 571992. HEART LAKE OUTLET PACIFIC NORTHWEST COLUMBIA

DATE TIME	930. SODIUM NA.DISS MG/L	935. PTSSIUM K.DISS MG/L	950. FLUORIDE F.DISS MG/L	1020. BORON B.DISS UG/L	1040. COPPER CU UG/L	1045. IRON TOTAL UG/L	1059. MANGNESE MN UG/L	1090. ZINC ZN.DISS UG/L	1165. SELENIUM SE.DISS UG/L	9503. RA-226 DISOLVED PC/L
70/ 6/ 8 930	16.00	2.50	*********	*********	*********	360.00	0.00+	0.00+	*********	*********
ARITHMETIC MEAN	16.00	2.50	0.00	0.00	0.00	360.00	0.00	0.00	0.00	0.00
STD. DEVIATION	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NO. OF VALUES	1	1	0	0	0	1	1	1	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA, 11/16/70

STATION 471992, MEANT LAKE OUTLET
PACIFIC NORTHWEST
COLUMBIA

DATE TIME	925, MAGNESIUM MG,DISS MG/L	1005, BARIUM BA,DISS UG/L	1049, LEAD PB,DISS UG/L	720, CYANIDE CN MG/L	1000, ARSENIC AS,DISS UG/L	32730, PHENOLS UG/L	500, RESIDUE TOTAL MG/L	515, RESIDUE TOT FLT MG/L	22703, U-NAT DISOLVED UG/L
70/ 6/ 8 930	0.60 *********		0.00**********	**********	*********	*********	125.00	113.00	*********
ARITHMETIC MEAN	0.60	0.00	0.00	0.00	0.00	0.00	125.00	113.00	0.00
STD. DEVIATION	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NO. OF VALUES	1	0	1	0	0	0	1	1	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 471993.
SHOSHONE LAKE NEAR PATROL CABIN
PACIFIC NORTHWEST
COLUMBIA

DATE TIME	10. WATER TEMP CENT	20. AIR TEMP CENT	3. VEAMPLOC DEPTH FEET	60. STREAM FLOW CUFT/SEC	300. DO MG/L	400. PH S U	403. LAB PH SU	95. CNDUCTVY AT 25C MICROMHO	70. TURB JKSN JU	410. T ALK CACO3 MG/L
70/ 6/26 1230	*********	*********	*********	*********	*********	*********	7.20	88.00	0.50	22.00
ARITHMETIC MEAN	0.00	0.00	0.00	0.00	0.00	0.00	7.20	88.00	0.50	22.00
STD. DEVIATION	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NO. OF VALUES	0	0	0	0	0	0	1	1	1	1

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA, 11/16/70

STATION 471993, SHOSHONE LAKE NEAR PATROL CABIN
PACIFIC NORTHWEST
COLUMBIA

DATE TIME	940, CHLORIDE CL MG/L	945, SULFATE SO4 MG/L	30+, BOD 2 DAY MG/L	310, BOD 5 DAY MG/L	610, AMMONIA NH3-N MG/L	625, TOT KJEL N MG/L	630, NO2&NO3 N MG/L	665, PHOS-T P-WET MG/L	70507, PHOS-T ORTHO MG/L-P	915, CALCIUM CA,DISS MG/L
70/ 6/26 1230	7.00	3.60 ********* *********			0.02	0.05	0.00+	0.09	0.05	3.10
ARITHMETIC MEAN	7.00	3.60	0.00	0.00	0.02	0.05	0.00	0.09	0.05	3.10
STD. DEVIATION	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NO. OF VALUES	1	1	0	0	1	1	1	1	1	1

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 971993.
SHOSHONE LAKE NEAR PATROL CABIN
PACIFIC NORTHWEST
COLUMBIA

DATE TIME	9.00. SODIUM NA.DISS MG/L	935. POTASSIUM K.DISS MG/L	950. FLUORIDE F.DISS MG/L	1020. BORON B.DISS UG/L	1040. COPPER CU UG/L	1045. IRON TOTAL UG/L	1055. MANGNESE MN UG/L	1090. ZINC ZN.DISS UG/L	1145. SELENIUM SE.DISS UG/L	9503. RA-226 DISOLVED PC/L
70/ 6/26 1230	13.00	3.20	1.30 *********		0.00+	0.00+	0.00+	0.00+**********	**********	
ARITHMETIC MEAN	13.00	3.20	1.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STD. DEVIATION	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NO. OF VALUES	1	1	1	0	1	1	1	1	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 471993.
SMOSMONE LAKE NEAR PATROL CABIN
PACIFIC NORTHWEST
COLUMBIA

DATE TIME	925. MAGNSIUM MG.DISS MG/L	1005. BARIUM BA.DISS UG/L	1049. LEAD PB.DISS UG/L	720. CYANIDE CN MG/L	1000. ARSENIC AS.DISS UG/L	32730. PHENOLS UG/L	900. RESIDUE TOTAL MG/L	915. RESIDUE TOT FLT MG/L	22703. U-NAT DISOLVED UG/L
70/ 6/26 1230	0.40	0.00	0.00	**********	**********	**********	102.00	70.00	**********
ARITHMETIC MEAN	0.40	0.00	0.00	0.00	0.00	0.00	102.00	70.00	0.00
STD. DEVIATION	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NO. OF VALUES	1	1	1	0	0	0	1	1	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM-BACT. 11/16/70

STATION 571993.
SHOSHONE LAKE NEAR PATROL CABIN
PACIFIC NORTHWEST
COLUMBIA

DATE TIME	955. SILICA SIO2 MG/L	680. T ORG C C MG/L	38260. MBAS MG/L	31501. COLIFORM IMEDENDO MF/100ML	31616. FEC COLI MF-C44.5 MF/100ML	31673. STPCOCCI KF AGR MF/100ML
70/ 6/26 1230	**********	6.00	**********	**********	**********	**********
ARITHMETIC MEAN	0.00	6.00	0.00	0.00	0.00	0.00
STD. DEVIATION	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NO. OF VALUES	0	1	0	0	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 971994.
LEWIS LAKE AT INLET TO LAKE
PACIFIC NORTHWEST
COLUMBIA

DATE TIME	10. WATER TEMP CENT	20. AIR TEMP CENT	3. VSAMPLOC DEPTH FEET	60. STREAM FLOW CUFT/SEC	300. DO MG/L	400. PH S U	403. LAB PH SU	95. CNDUCTVY AT 25C MICROMHO	78. TURB JKSN JU	410. T ALK CACO3 MG/L
70/ 6/20 1730	**********	**********	**********	**********	**********	**********	7.00	86.00	1.00	24.00
70/ 7/23 1420	17.50	21.00	**********	**********	7.80	7.20	7.00	89.00	0.50	23.00
70/ 7/31 1220	19.00	19.00	**********	**********	8.00	8.00	7.60	87.00	0.40	25.00
ARITHMETIC MEAN	18.25	20.00	0.00	0.00	7.90	7.60	7.20	87.33	0.63	24.00
STD. DEVIATION	1.0607	1.4142	0.0000	0.0000	0.1414	0.5657	0.3464	1.5502	0.3214	1.0001
NO. OF VALUES	2	2	0	0	2	2	3	3	3	3

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION ST1994.
LEWIS LAKE AT INLET TO LAKE
PACIFIC NORTHWEST
COLUMBIA

DATE TIME	940. CHLORIDE CL MG/L	945. SULFATE SO4 MG/L	304. BOD 2 DAY MG/L	310. BOD 5 DAY MG/L	610. AMMONIA NH3-N MG/L	625. TOT KJEL N MG/L	630. NO2&NO3 N MG/L	665. PHOS-T P=SET MG/L	70507. PHOS-T ORTHO MG/L=P	915. CALCIUM CA-DISS MG/L
70/ 6/30 1750	6.00	3.00	**********	**********	0.01	0.04	0.01	0.06	0.03	2.70
70/ 7/23 1420	7.00	4.40	**********	**********	0.00+	0.24	0.08	0.02	0.02	1.90
70/ 7/31 1220	7.00	7.00	**********	**********	0.01	0.34	0.00+	0.03	0.01	2.50
ARITHMETIC MEAN	6.66	5.46	0.00	0.00	0.00	0.20	0.01	0.03	0.02	2.36
STD. DEVIATION	0.5773	1.3613	0.0000	0.0000	0.0057	0.1527	0.0152	0.0208	0.0208	0.4163
NO. OF VALUES	3	3	0	0	3	3	3	3	3	3

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 11/16/70

STATION 07199**:
LEWIS LAKE AT INLET TO LAKE
PACIFIC NORTHWEST
COLUMBIA

DATE TIME	930: SODIUM NA:DISS MG/L	935: POTASSIUM K:DISS MG/L	950: FLUORIDE F:DISS MG/L	1020: BORON B:DISS UG/L	1040: COPPER CU UG/L	1045: IRON TOTAL UG/L	1055: MANGANESE MN UG/L	1090: ZINC ZN:DISS UG/L	1149: SELENIUM SE:DISS UG/L	9503: RA-226 DISSOLVED PC/L
70/ 6/30 1750	13.00	3.50	1.50	**********	0.03*	0.00*	0.00*	0.00***********	**********	**********
70/ 7/29 1420	13.00	3.10	2.40	**********	0.20	0.00*	0.00*	0.00***********	**********	**********
70/ 7/31 1220	13.00	3.20	2.80	**********	0.60*	120.00	0.00*	0.00***********	**********	**********
ARITHMETIC MEAN	13.00	3.27	2.28	0.00	0.08	40.00	0.00	0.00	0.00	0.00
STD. DEVIATION	1.1547	0.1000	0.6658	0.0000	0.1154	69.2819	0.0000	0.0000	0.0000	0.0000
NO. OF VALUES	3	3	3	0	3	3	3	3	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA, 11/16/70

STATION 571994.
LEWIS LAKE AT INLET TO LAKE
PACIFIC NORTHWEST
COLUMBIA

DATE TIME	925. MGNSIUM MG,DISS MG/L	1005. BARIUM BA,DISS UG/L	1049. LEAD PB,DISS UG/L	720. CYANIDE CN MG/L	1000. ARSENIC AS,DISS UG/L	32730. PHENOLS UG/L	500. RESIDUE TOTAL MG/L	515. RESIDUE TOT FLT MG/L	22703. U-NAT DISOLVED UG/L
70/ 6/20 1730	0.40	0.00+	0.00+**********	**********	**********	**********	121.00	82.00	**********
70/ 7/23 1420	0.80	0.00+	0.00+**********	**********	**********	**********	146.00	77.00	**********
70/ 7/31 1220	0.40	0.00+	0.00+**********	**********	**********	**********	169.00	101.00	**********
ARITHMETIC MEAN	0.53	0.00	0.00	0.00	0.00	0.00	145.33	86.66	0.00
STD. DEVIATION	0.2309	0.0000	0.0000	0.0000	0.0000	0.0000	24.0073	12.6625	0.0000
NO. OF VALUES	3	3	3	0	0	0	3	3	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM-BACT. 11/16/70

STATION 571994.
LEWIS LAKE AT INLET TO LAKE
PACIFIC NORTHWEST
COLUMBIA

DATE TIME	955. SILICA SIO2 MG/L	680. T ORG C C MG/L	38260. MBAS MG/L	31501. COLIFORM IMEDEMOD MF/100ML	31616. FEC COLI MF-Coe.5 MF/100ML	31673. STPCOCCI KF AGR MF/100ML
70/ 6/20 1730	*********	7.00	*********	*********	*********	*********
70/ 7/23 1420	36.00	6.00	*********	*********	*********	*********
70/ 7/31 1220	34.00	6.00	*********	*********	*********	*********
ARITHMETIC MEAN	35.00	6.33	0.00	0.00	0.00	0.00
STD. DEVIATION	1.4143	0.5773	0.0000	0.0000	0.0000	0.0000
NO. OF VALUES	2	3	0	0	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 571995.
LEWIS LAKE AT LEWIS L. CAMP AREA
PACIFIC NORTHWEST
COLUMBIA

DATE TIME	10. WATER TEMP CENT	20. AIR TEMP CENT	3. VSAMPLOC DEPTH FEET	60. STREAM FLOW CUFT/SEC	300. DO MG/L	400. PH S U	403. LAB PH SU	95. CNDUCTVY AT 25C MICROMHO	70. TURB JKSN JU	410. T ALK CACO3 MG/L
70/ 5/ 8 1045	0.00	4.00	**********	**********	7.50	7.60	7.80	70.00	3.00	28.00
70/ 5/18 830	0.00	11.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 5/19 820	0.00	4.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 5/20 810	0.00	8.00	**********	**********	**********	**********	6.10	**********	**********	**********
70/ 5/21 840	0.00	2.00	**********	**********	**********	6.80	5.80	**********	**********	**********
70/ 5/22 900	0.00	4.00	**********	**********	**********	**********	5.90	**********	**********	**********
70/ 5/25 1400	1.00	17.00	**********	**********	8.90	6.90	6.40	31.00	1.40	8.00
70/ 7/20 1525	20.00	24.00	**********	**********	6.60	7.20	7.10	90.00	0.40	24.00
70/ 7/25 810	13.00	11.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 7/26 1045	13.00	23.00	**********	**********	**********	**********	7.40	**********	0.70	23.00
70/ 7/27 950	16.50	17.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 7/28 1155	15.00	23.00	**********	**********	**********	**********	7.20	**********	0.60	26.00
70/ 7/29 1010	16.00	20.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 7/31 1200	19.00	22.00	**********	**********	7.40	7.30	7.20	92.00	0.50	26.00
ARITHMETIC MEAN	9.10	13.57	0.00	0.00	7.60	7.16	6.76	70.75	1.10	22.96
STD. DEVIATION	8.4720	8.2061	0.0000	0.0000	0.9557	0.3210	0.7265	28.3004	0.9959	7.0659
NO. OF VALUES	14	14	0	0	4	5	9	4	6	6

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA, 11/16/70

STATION 571995.
LEWIS LAKE AT LEWIS L. CAMP AREA
PACIFIC NORTHWEST
COLUMBIA

DATE	TIME	940. CHLORIDE CL MG/L	945. SULFATE SO4 MG/L	304. BOD 2 DAY MG/L	310. BOD 5 DAY MG/L	610. AMMONIA NH3-N MG/L	625. TOT KJEL N MG/L	630. NO2&NO3 N MG/L	665. PHOS-T P-ET MG/L	70507. PHOS-T ORTHO MG/L-P	915. CALCIUM CA,DISS MG/L
70/ 9/ 8	1040	9.00	13.00	**********	**********	0.13	0.24	0.12	0.05	0.00	2.90
70/ 9/20	810	**********	**********	0.50	0.60	**********	**********	**********	**********	**********	**********
70/ 9/21	840	**********	**********	0.60	1.10	**********	**********	**********	**********	**********	**********
70/ 9/22	900	**********	**********	0.40	0.60	**********	**********	**********	**********	**********	**********
70/ 9/25	1400	7.00	2.30	**********	**********	0.06	0.16	0.09	0.01	0.00	3.70
70/ 7/20	1325	7.00	5.40	**********	**********	0.03	0.15	0.00+	0.13	0.01	2.80
70/ 7/26	1049	**********	**********	0.20	0.40	**********	**********	**********	**********	**********	**********
70/ 7/28	1159	**********	**********	0.20	0.80	**********	**********	**********	**********	**********	**********
70/ 7/31	1200	7.00	6.80	**********	**********	0.00+	0.13	0.00+	0.13	0.01	2.70
ARITHMETIC MEAN		7.50	6.87	0.38	0.70	0.05	0.17	0.05	0.08	0.00	3.02
STD. DEVIATION		1.0000	4.4954	0.1708	0.2645	0.0556	0.0483	0.0618	0.0600	0.0035	0.4573
NO. OF VALUES		4	4	5	5	4	4	4	4	4	4

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 571995.
LEWIS LAKE AT LEWIS L. CAMP AREA
PACIFIC NORTHWEST
COLUMBIA

DATE TIME	930. SODIUM NA.DISS MG/L	935. PTSSIUM K.DISS MG/L	950. FLUORIDE F.DISS MG/L	1020. BORON B.DISS UG/L	1040. COPPER CU UG/L	1045. IRON TOTAL UG/L	1055. MANGNESE MN UG/L	1090. ZINC ZN.DISS UG/L	1145. SELENIUM SE.DISS UG/L	9503. RA-226 DISOLVED PC/L
70/ 5/ 8 1045	12.00	2.40	2.30 **********		0.00+	200.00	40.00	0.00+**********		**********
70/ 5/25 1400	12.00	2.40	0.70 **********		0.00+	150.00	30.00	0.00+**********		**********
70/ 7/20 1525	13.00	3.40	2.60 **********		0.00+**********		0.00+	0.00+**********		**********
70/ 7/31 1200	15.00	3.10	2.60 **********		0.00+	0.00+	0.00+	0.00+**********		**********
ARITHMETIC MEAN	13.00	2.82	2.05	0.00	0.00	116.66	17.50	0.00	0.00	0.00
STD. DEVIATION	1.4142	0.5058	0.9110	0.0000	0.0000	104.0832	23.6155	0.0000	0.0000	0.0000
NO. OF VALUES	4	4	4	0	4	3	4	4	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 11/16/70

STATION 571995.
LEWIS LAKE AT LEWIS L. CAMP AREA
PACIFIC NORTHWEST
COLUMBIA

DATE TIME	925. MGNSIUM MG.DISS MG/L	1005. BARIUM BA.DISS UG/L	1049. LEAD PB.DISS UG/L	720. CYANIDE CN MG/L	1000. ARSENIC AS.DISS UG/L	32730. PHENOLS UG/L	900. RESIDUE TOTAL MG/L	515. RESIDUE TOT FLT MG/L	22703. U-NAT DISOLVED UG/L
70/ 5/ 8 1045	0.40	0.00+	0.00+**********	**********	**********	50.00	49.00	**********
70/ 5/25 1400	0.40	0.00+	0.00+**********	**********	**********	123.00	109.00	**********
70/ 7/20 1525	0.40	0.00+	0.00+**********	**********	**********	149.00	81.00	**********
70/ 7/31 1200	0.40	0.00+	0.00+**********	**********	**********	157.00	143.00	**********
ARITHMETIC MEAN	0.40	0.00	0.00	0.00	0.00	0.00	119.75	95.50	0.00
STD. DEVIATION	0.0002	0.0000	0.0000	0.0000	0.0000	0.0000	48.7125	40.0458	0.0000
NO. OF VALUES	4	4	4	0	0	0	4	4	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM-BACT. 11/16/70

STATION 971995.
LEWIS LAKE AT LEWIS L. CAMP AREA
PACIFIC NORTHWEST
COLUMBIA

DATE TIME	955. SILICA SIO2 MG/L	680. T ORG C C MG/L	38260. MBAS MG/L	31501. COLIFORM IMEDENDO MF/100ML	31616. FEC COLI MF-C44.5 MF/100ML	31673. STPCOCCI KF AGR MF/100ML
TO/ 5/ 8 1045	**********	8.00	**********	**********	**********	**********
TO/ 5/18 830	**********	**********	**********	1.00	1.00	**********
TO/ 5/19 900	**********	**********	**********	1.00-	1.00-	**********
TO/ 5/20 810	**********	**********	**********	1.00-	1.00-	**********
TO/ 5/21 840	**********	**********	**********	1.00-	1.00-	**********
TO/ 5/22 900	**********	**********	**********	1.00-	1.00-	**********
TO/ 7/30 1529	36.00	7.00	**********	**********	**********	**********
TO/ 7/25 810	**********	**********	**********	**********	1.00-	2.00
TO/ 7/26 1048	**********	**********	**********	**********	1.00-	4.00
TO/ 7/27 930	**********	**********	**********	**********	1.00	33.00
TO/ 7/28 1158	**********	**********	**********	**********	1.00-	12.00
TO/ 7/29 1010	**********	**********	**********	**********	1.00	1.00
TO/ 7/31 1200	36.00	7.00	**********	**********	**********	**********
ARITHMETIC MEAN	36.00	7.33	0.00	1.00	1.00	10.40
STD. DEVIATION	0.0220	0.5773	0.0000	0.0011	0.0010	13.3328
NO. OF VALUES	2	3	0	5	10	5

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA, 11/16/70

STATION 571996,
LEWIS R AT S, ENTRANCE RD BRDGE
PACIFIC NORTHWEST
COLUMBIA

DATE TIME	10, WATER TEMP CENT	20, AIR TEMP CENT	3, VSAMPLOC DEPTH FEET	60, STREAM FLOW CUFT/SEC	300, DO MG/L	400, PH S U	403, LAB PH SU	95, CNDUCTVY AT 25C MICROMHO	70, TURB JKSN JU	410, T ALK CACO3 MG/L
70/ 5/ 8 915	5.00	8.00	**********	**********	9.20	7.50	7.50	94.00	0.90	34.00
70/ 5/18 845	5.00	12.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 5/19 830	5.00	7.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 5/20 825	5.00	8.00	**********	**********	**********	**********	7.10	**********	**********	**********
70/ 5/21 830	4.00	4.00	**********	**********	**********	**********	7.40	**********	**********	**********
70/ 5/22 800	4.00	1.00	**********	**********	**********	**********	7.40	**********	**********	**********
70/ 5/25 1345	7.50	16.00	**********	**********	8.90	7.00	6.98	108.00	0.30	28.00
70/ 7/20 1430	18.00	28.00	**********	320.00	**********	7.10	7.20	93.00	0.30	25.00
70/ 7/25 820	15.50	14.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 7/26 1050	17.00	20.00	**********	**********	**********	**********	7.50	**********	0.40	26.00
70/ 7/27 1000	16.00	20.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 7/28 1140	17.50	24.00	**********	**********	**********	**********	7.20	**********	0.40	26.00
70/ 7/29 1020	18.00	18.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 7/31 1100	16.00	23.00	**********	**********	8.60	7.10	7.30	142.00	0.40	42.00
ARITHMETIC MEAN	10.96	13.92	0.00	320.00	8.90	7.17	7.27	109.25	0.45	30.16
STD, DEVIATION	6.2062	8.8705	0.0000	0.0000	0.3000	0.2216	0.1988	22.8821	0.2258	6.6456
NO, OF VALUES	14	14	0	1	3	4	9	4	6	6

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 971996.
LEWIS R AT S. ENTRANCE RD BRDGE
PACIFIC NORTHWEST
COLUMBIA

DATE TIME	940. CHLORIDE CL MG/L	945. SULFATE SO4 MG/L	304. BOD 2 DAY MG/L	310. BOD 5 DAY MG/L	610. AMMONIA NH3-N MG/L	625. TOT KJEL N MG/L	630. NO2&NO3 N MG/L	665. PHOS-T P-WET MG/L	70507. PHOS-T ORTHO MG/L-P	915. CALCIUM CA,DISS MG/L
70/ 5/ 6 915	11.00	10.00	**********	**********	0.01	0.04	0.00+	0.03	0.01	3.10
70/ 5/20 825	**********	**********	0.60	0.80	**********	**********	**********	**********	**********	**********
70/ 5/21 830	**********	**********	0.60	0.90	**********	**********	**********	**********	**********	**********
70/ 5/22 800	**********	**********	0.60	0.60	**********	**********	**********	**********	**********	**********
70/ 5/25 1345	9.00	6.00	**********	**********	0.03	0.05	0.03	0.01	0.00	4.30
70/ 7/22 1430	7.00	5.40	**********	**********	0.01	0.00+	0.00+	0.10	0.02	2.80
70/ 7/26 1090	**********	**********	0.40	0.40	**********	**********	**********	**********	**********	**********
70/ 7/28 1140	**********	**********	0.40	0.80	**********	**********	**********	**********	**********	**********
70/ 7/31 1100	12.00	9.00	**********	**********	0.00+	0.00+	0.00+	0.03	0.02	4.10
ARITHMETIC MEAN	9.75	6.60	0.52	0.70	0.01	0.02	0.00	0.04	0.01	3.57
ST. DEVIATION	2.2173	2.3036	0.1095	0.2000	0.0125	0.0262	0.0150	0.0394	0.0071	0.7369
# OF VALUES	4	4	5	5	4	4	4	4	4	4

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 571990.
LEWIS R AT S. ENTRANCE RD BRIDGE
PACIFIC NORTHWEST
COLUMBIA

DATE TIME	930. SODIUM NA.DISS MG/L	935. PTASSIUM K.DISS MG/L	950. FLUORIDE F.DISS MG/L	1020. BORON B.DISS UG/L	1040. COPPER CU UG/L	1045. IRON TOTAL UG/L	1055. MANGANESE MN UG/L	1090. ZINC ZN.DISS UG/L	1145. SELENIUM SE.DISS UG/L	9503. RA-226 DISSOLVED PC/L
70/ 5/ 8 915	17.00	3.30	3.30	**********	0.00+	100.00	50.00	10.00	**********	0.01-
70/ 5/25 1345	18.00	3.50	3.00	**********	0.00+	0.00+	40.00	0.00	**********	**********
70/ 7/20 1430	14.00	3.40	2.30	**********	0.00+	**********	0.00+	0.00	**********	**********
70/ 9/21 1100	22.00	3.80	2.60	**********	0.00+	100.00	0.00+	0.00	**********	**********
ARITHMETIC MEAN	17.75	3.50	2.85	0.00	0.00	66.66	22.50	2.50	0.00	0.01
STD. DEVIATION	3.304	0.2160	0.3696	0.0000	0.0000	57.7349	26.2995	4.9999	0.0000	0.0000
NO. OF VALUES	4	4	4	0	4	3	4	4	0	1

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA, 11/16/70

STATION 471996.
LEWIS R AT S. ENTRANCE RD BRDGE
PACIFIC NORTHWEST
COLUMBIA

DATE TIME	925. MANGNESE MG.DISS MG/L	1005. BARIUM BA.DISS UG/L	1049. LEAD PB.DISS UG/L	720. CYANIDE CN MG/L	1000. ARSENIC AS.DISS UG/L	32730. PHENOLS UG/L	500. RESIDUE TOTAL MG/L	515. RESIDUE TOT FLT MG/L	22703. U-NAT DISOLVED UG/L
70/ 5/ 8 915	0.50	0.00+	0.00+**********	**********	**********	120.00	120.00	0.40
70/ 5/25 1345	0.40	0.00+	0.00+**********	**********	**********	127.00	102.00	**********
70/ 7/20 1430	0.40	0.00+	0.00+**********	**********	**********	113.00	57.00	**********
70/ 7/31 1100	0.70	0.00+	0.00+**********	**********	**********	218.00	141.00	**********
ARITHMETIC MEAN	0.50	0.00	0.00	0.00	0.00	0.00	144.50	105.00	0.40
STD. DEVIATION	0.1414	0.0000	0.0000	0.0000	0.0000	0.0000	49.3323	35.7491	0.0000
NO. OF VALUES	4	4	4	0	0	0	4	4	1

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM-BACT. 11/16/70

STATION 571996.
LEWIS R AT S. ENTRANCE RD BRDGE
PACIFIC NORTHWEST
COLUMBIA

DATE	TIME	955. SILICA SIO2 MG/L	680. T ORG C C MG/L	38260. MBAS MG/L	31501. COLIFORM IMEDENDO MF/100ML	31616. FEC COLI MF-C44.5 MF/100ML	31673. STPCOCCI KF AGR MF/100ML
70/ 5/ 8	915	**********	9.00	**********	**********	**********	**********
70/ 5/18	845	**********	**********	**********	10.00	1.00-	**********
70/ 5/19	830	**********	**********	**********	8.00	1.00-	**********
70/ 5/20	829	**********	**********	**********	14.00	1.00-	**********
70/ 5/21	830	**********	**********	**********	3.00	1.00	**********
70/ 5/22	800	**********	**********	**********	3.00	1.00	**********
70/ 5/25	1345	**********	9.00	**********	**********	**********	**********
70/ 7/20	1430	38.00	7.00	**********	**********	**********	**********
70/ 7/25	820	**********	**********	**********	**********	1.00-	2.00
70/ 7/26	1030	**********	**********	**********	**********	1.00	1.00-
70/ 7/27	1900	**********	**********	**********	**********	20.00	30.00
70/ 7/28	1040	**********	**********	**********	**********	1.00-	1.00-
70/ 7/29	1020	**********	**********	**********	**********	2.00	1.00-
70/ 7/31	1100	38.00	9.00	**********	**********	**********	**********
ARITHMETIC MEAN		38.00	8.50	0.00	7.60	3.00	7.00
STD. DEVIATION		0.0220	1.0000	0.0000	4.7222	5.9814	12.3646
NO. OF VALUES		2	4	3	5	10	5

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 571997.
SNAKE R. ABOVE LEWIS R. JUNC.
PACIFIC NORTHWEST
COLUMBIA

DATE TIME	10. WATER TEMP CENT	20. AIR TEMP CENT	3. VSAMPLOC DEPTH FEET	60. STREAM FLOW CUFT/SEC	300. DO MG/L	400. PH S U	403. LAB PH SU	95. CNDUCTVY AT 25C MICROMHO	78. TURB JKSN JU	410. T ALK CACO3 MG/L
70/ 6/28 1035	**********	**********	**********	**********	**********	**********	7.70	108.00	50.00	40.00
70/ 7/31 1050	16.00	23.00	**********	**********	8.40	7.00	7.40	124.00	0.40	37.00
ARITHMETIC MEAN	16.00	23.00	0.00	0.00	8.40	7.00	7.55	116.00	25.20	38.50
STD. DEVIATION	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.2121	11.3138	35.0724	2.1213
NO. OF VALUES	1	1	0	0	1	1	2	2	2	2

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA: 11/16/70

STATION 871997.
SNAKE R. ABOVE LEWIS R. JUNC.
PACIFIC NORTHWEST
COLUMBIA

DATE TIME	940. CHLORIDE CL MG/L	945. SULFATE SO4 MG/L	310. BOD 5 DAY MG/L	310. BOD 5 DAY MG/L	610. AMMONIA NH3-N MG/L	625. TOT KJEL N MG/L	630. NO2&NO3 N MG/L	665. PHOS-T P=PET UG/L	70507. PHOS-T ORTHO MG/L-P	916. CALCIUM CA-DISS MG/L
70/ 6/28 1035	3.00	41.00	**********	**********	0.03	0.67	0.01	0.25	0.03	10.00
70/ 7/31 1050	10.00	6.50	**********	**********	0.00+	0.27	0.00+	0.04	0.02	4.30
ARITHMETIC MEAN	6.50	24.75	0.00	0.00	0.01	0.47	0.00	0.14	0.02	7.15
STD. DEVIATION	4.9497	22.9809	0.0000	0.0000	0.0212	0.2828	0.0070	0.1484	0.0070	4.0305
NO. OF VALUES	2	2	0	0	2	2	2	2	2	2

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/18/70

STATION 571997.
SNAKE R. ABOVE LEWIS R. JUNC.
PACIFIC NORTHWEST
COLUMBIA

DATE TIME	930. SODIUM NA.DISS MG/L	935. POTASSIUM K.DISS MG/L	950. FLUORIDE F.DISS MG/L	1020. BORON B.DISS UG/L	1040. COPPER CU UG/L	1045. IRON TOTAL UG/L	1055. MANGNESE MN UG/L	1090. ZINC ZN.DISS UG/L	1145. SELENIUM SE.DISS UG/L	9503. RA-226 DISOLVED PC/L
70/ 6/28 1035	**********	**********	0.20	**********	**********	**********	**********	0.00+**********	**********	**********
70/ 7/31 1050	19.00	3.30	2.40	**********	0.00+	0.00+	0.00+	0.00+**********	**********	**********
ARITHMETIC MEAN	19.00	3.30	1.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STD. DEVIATION	0.0000	0.0000	1.9556	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NO. OF VALUES	1	1	2	0	1	1	1	2	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHLM DATA. 11/16/70

STATION 571997.
SNAKE R. ABOVE LEWIS R. JUNC.
PACIFIC NORTHWEST
COLUMBIA

DATE TIME	925. MGNSIUM MG.DISS MG/L	1005. BARIUM BA.DISS UG/L	1049. LEAD PB.DISS UG/L	723. CYANIDE CN MG/L	1000. ARSENIC AS.DISS UG/L	32730. PHENOLS UG/L	930. RESIDUE TOTAL MG/L	515. RESIDUE TOT FLT MG/L	22703. URANAT DISOLVED UG/L
70/ 6/28 1035	3.10	0.00+	0.00	**********	*********	*********	268.00	91.00	*********
70/ 7/31 1050	0.72	0.00+	0.00	**********	*********	*********	194.00	113.00	*********
ARITHMETIC MEAN	1.90	0.00	0.00	0.00	0.00	0.00	231.00	82.00	0.00
STD. DEVIATION	1.5970	0.0000	0.0000	0.0000	0.0000	0.0000	63.6101	43.8409	0.0000
NO. OF VALUES	2	2	2	0	0	0	2	2	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM-BACT. 11/16/70

STATION 571997.
SNAKE R. ABOVE LEWIS R. JUNC.
PACIFIC NORTHWEST
COLUMBIA

DATE TIME	955. SILICA SIO2 MG/L	680. T ORG C C MG/L	38260. MBAS MG/L	31501. COLIFORM IMEDENDO MF/100ML	31616. FEC COLI MF-C44.5 MF/100ML	31673. STPCOCCI KF AGR MF/100ML
70/ 6/28 1035	**********	10.00	**********	**********	**********	**********
70/ 7/31 1050	36.00	9.00	**********	**********	**********	**********
ARITHMETIC MEAN	36.00	9.50	0.00	0.00	0.00	0.00
STD. DEVIATION	0.0000	0.7071	0.0000	0.0000	0.0000	0.0000
NO. OF VALUES	1	2	0	0	0	0

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 571998.
SNAKE R. AT SOUTH PARK BOUNDARY
PACIFIC NORTHWEST
COLUMBIA

DATE TIME	10. WATER TEMP CENT	20. AIR TEMP CENT	3. VSAMPLOC DEPTH FEET	60. STREAM FLOW CUFT/SEC	300. DO MG/L	400. PH S U	403. LAB PH SU	95. CNDUCTVY AT 25C MICROMHO	70. TURB JKSN JU	410. T ALK CACO3 MG/L
70/ 5/ 8 945	4.00	2.00	**********	**********	9.50	7.40	8.60	182.00	2.20	70.00
70/ 5/18 915	4.00	14.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 5/19 900	3.00	11.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 5/20 845	3.00	11.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 5/21 810	2.00	3.00	**********	**********	**********	**********	7.10	**********	**********	**********
70/ 5/22 830	4.00	7.00	**********	**********	**********	**********	7.40	**********	**********	**********
70/ 5/25 1255	7.50	16.00	**********	**********	**********	**********	7.60	**********	**********	**********
70/ 7/20 1330	19.00	28.00	**********	**********	9.20	7.10	6.70	108.00	7.20	37.00
70/ 7/25 840	13.50	13.00	**********	**********	7.40	7.00	7.00	169.00	0.50	48.00
70/ 7/26 1000	15.00	19.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 7/27 1020	15.00	21.00	**********	**********	**********	**********	7.60	**********	0.70	57.00
70/ 7/28 1115	16.00	22.00	**********	**********	**********	**********	**********	**********	**********	**********
70/ 7/29 1035	16.00	18.00	**********	**********	**********	**********	7.50	**********	65.00	63.00
70/ 7/31 1045	16.00	23.00	**********	**********	**********	**********	**********	**********	**********	**********
					8.20	7.30	7.50	199.00	0.70	59.00
ARITHMETIC MEAN	9.85	14.85	0.00	0.00	8.57	7.20	7.44	164.50	12.71	55.66
STD. DEVIATION	6.3682	7.6345	0.0000	0.0000	0.9605	0.1827	0.5318	39.6190	25.7395	11.6563
NO. OF VALUES	14	14	8	0	4	4	9	4	6	6

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA, 11/16/70

STATION 571998, SNAKE R, AT SOUTH PARK BOUNDARY
PACIFIC NORTHWEST
COLUMBIA

DATE	TIME	940, CHLORIDE CL MG/L	945, SULFATE SO4 MG/L	304, BOD 2 DAY MG/L	310, BOD 5 DAY MG/L	610, AMMONIA NH3-N MG/L	625, TOT KJEL N MG/L	630, NO2&NO3 N MG/L	665, PHOS-T P-WET MG/L	70507, PHOS-T ORTHO MG/L-P	915, CALCIUM CA,DISS MG/L
70/ 5/ 8	945	12.00	21.00	**********	**********	0.01	0.06	0.03	0.04	0.01	13.00
70/ 5/20	845	**********	**********	0.60	1.30	**********	**********	**********	**********	**********	**********
70/ 5/21	810	**********	**********	0.40	0.70	**********	**********	**********	**********	**********	**********
70/ 5/22	830	**********	**********	0.70	0.50	**********	**********	**********	**********	**********	**********
70/ 5/25	1255	6.00	12.00	**********	**********	0.01	0.09	0.23	0.31	0.00	11.00
70/ 7/20	1330	10.00	14.00	**********	**********	0.01	0.05+	0.00+	0.02	0.02	11.00
70/ 7/26	1000	**********	**********	0.80	1.40	**********	**********	**********	**********	**********	**********
70/ 7/28	1115	**********	**********	0.90	1.80	**********	**********	**********	**********	**********	**********
70/ 7/31	1045	11.00	29.00	**********	**********	0.1+	0.1+	0.00+	0.04	0.02	14.00
ARITHMETIC MEAN		9.75	16.75	0.68	1.28	0.00	0.07	0.01	0.02	0.01	12.25
STD. DEVIATION		2.6299	4.4253	0.1923	0.5263	0.0050	0.0547	0.0173	0.0150	0.0078	1.5000
NO. OF VALUES		4	4	5	5	4	4	4	4	4	4

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA, 11/16/70

STATION 471998.
SNAKE R. AT SOUTH PARK BOUNDARY
PACIFIC NORTHWEST
COLUMBIA

DATE TIME	930. SODIUM NA,DISS MG/L	935. PTSSIUM K,DISS MG/L	950. FLUORIDE F,DISS MG/L	1020. BORON B,DISS UG/L	1040. COPPER CU UG/L	1045. IRON TOTAL UG/L	1055. MANGNESE MN UG/L	1090. ZINC ZN,DISS UG/L	1145. SELENIUM SE,DISS UG/L	9503. RA-226 DISOLVED PC/L
70/ 5/ 8 945	21.00	2.80	2.30	*********	0.00+	290.00	0.00+	0.00+	0.00+	0.09
70/ 5/25 1255	13.00	2.00	1.30	10.00	0.00+	500.00	80.00	0.00+	**********	*********
70/ 7/20 1320	19.00	3.50	1.90	110.00	0.00+	0.00+	0.00+	0.00+	**********	*********
70/ 7/31 1048	20.00	9.60	1.80	190.00	0.00+	0.00+	0.00+	0.00+	0.00+	*********
ARITHMETIC MEAN	18.25	3.47	1.82	90.00	0.00	197.50	20.00	0.00	0.00	0.09
STD. DEVIATION	3.5939	1.9435	0.4113	72.1109	0.0000	239.3565	39.9999	0.0000	0.0000	0.0000
NO. OF VALUES	4	4	4	3	4	4	4	4	2	1

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM DATA. 11/16/70

STATION 971990.
SNAKE R. AT SOUTH PARK BOUNDARY
PACIFIC NORTHWEST
COLUMBIA

DATE TIME	929. MANGANESE MG.DISS MG/L	1005. BARIUM BA.DISS UG/L	1049. LEAD PB.DISS UG/L	720. CYANIDE CN UG/L	1000. ARSENIC AS.DISS UG/L	32730. PHENOLS UG/L	500. RESIDUE TOTAL MG/L	515. RESIDUE TOT FLT MG/L	22703. UNSAT DISOLVED UG/L
70/ 5/ 8 949	2.40	0.00+	0.00+	0.20+	30.00	3.90	136.00	136.00	0.20
70/ 5/29 1259	1.50	0.00+	0.00+	0.00+	20.00	3.90	191.00	89.00	**********
70/ 7/20 1330	2.90	0.00+	0.00+**********		20.00	**********	154.00	104.00	**********
70/ 7/31 1049	2.60	0.00+	0.00**********		20.00	**********	181.00	180.00	**********
ARITHMETIC MEAN	2.40	0.00	0.00	0.10	22.50	2.20	159.50	127.25	0.20
STD. DEVIATION	0.6377	0.0000	0.0000	0.0000	5.0000	1.6384	19.7392	40.2626	0.0000
NO. OF VALUES	4	4	4	2	4	2	4	4	1

ADDITIONAL PARAMETERS AVAILABLE FOR STATION

PRELIMINARY YELLOWSTONE NATIONAL PARK SURVEY RETRIEVAL - CHEM-BACT. 11/16/70

STATION 971998.
SNAKE R. AT SOUTH PARK BOUNDARY
PACIFIC NORTHWEST
COLUMBIA

DATE	TIME	955. SILICA SIO2 MG/L	680. T ORG C C MG/L	38260. MBAS MG/L	31501. COLIFORM IMEDENDO MF/100ML	31616. FEC COLI MF=C44.5 MF/100ML	31673. STPCOCCI KF AGR MF/100ML
70/ 5/ 8	945	**********	17.00	0.06	**********	**********	**********
70/ 5/18	915	**********	**********	**********	120.00	50.00	**********
70/ 5/19	820	**********	**********	**********	340.00	300.00	**********
70/ 5/20	845	**********	**********	**********	100.00	30.00	**********
70/ 5/21	810	**********	**********	**********	71.00	51.00	**********
70/ 5/22	830	**********	**********	**********	23.00	13.00	**********
70/ 5/25	1255	**********	10.00	0.04	**********	**********	**********
70/ 7/20	1330	32.00	15.00	**********	**********	**********	**********
70/ 7/25	840	**********	**********	**********	**********	18.00	25.00
70/ 7/26	1000	**********	**********	**********	**********	18.00	29.00
70/ 7/27	1020	**********	**********	**********	**********	16.00	22.00
70/ 7/28	1115	**********	**********	**********	**********	79.00	94.00
70/ 7/29	1035	**********	**********	**********	**********	42.00	130.00
70/ 7/31	1045	31.00	15.00	0.00	**********	**********	**********
ARITHMETIC MEAN		31.65	14.25	0.03	130.79	60.19	58.66
STD. DEVIATION		0.7076	2.9860	0.0305	122.5017	87.2946	54.1452
NO. OF VALUES		2	4	3	5	10	9

ADDITIONAL PARAMETERS AVAILABLE FOR STATION